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CURRENT SERIAL RECORDS

TABULATIONS OF DHIA RECORDS OF  
DAUGHTERS OF AI SIRES

IN THE  
UNITED STATES

(Part 3, Section 2)  
(Pages 473 - 880, incl.)



Growth Through Agricultural Progress

Agricultural Research Service  
United States Department of Agriculture

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## TABULATIONS OF DHIA RECORDS OF DAUGHTERS OF AI SIRES IN THE UNITED STATES 1/

In this part of the AI Tabulations is Table 15. The contents of the table is indicated by the title of the table listed in the index on the back of the front cover.

These tabulations include the DHIA lactation records of all AI daughters of all sires reported to the Dairy Cattle Research Branch, AHRD, in AI service from 1939 through January 1, 1961, and the lactation records of 461, 100 daughters of 7, 618 AI sires reported to the Dairy Cattle Research Branch, AHRD, prior to May 1, 1961.

All production records used in these tabulations consist of 305-day lactation records standardized to a mature-equivalent twice-a-day milking basis. When more than one lactation record were available for a cow, each record was standardized and the average of all standardized records used to represent the production capacity of the cow.

Compilation of contemporary (herd-mate) and yearly-herd-average data are dependent on herd codes to assemble such data for each sire. Because a uniform system of identifying DHIA herds by code has been in operation for only a few years, lactation records and herd-average data reported in earlier years are not identified by herd codes. Tabulations for the older sires listed, therefore, may include little or no herd-mate or yearly-herd-average data.

1/ AI Tabulations 1961 are in 5 parts (parts 1 and 3 are divided into 3 sections), published by Dairy Cattle Research Branch, Animal Husbandry Research Division, Agricultural Research Service.

## ARTIFICIAL-BREEDING ORGANIZATIONS IN THE UNITED STATES

DHIA Proved-Sire Records, of sires in AB service, indicate by code number the last AB organization in which a sire is used. Following is a complete list of AB organizations that have operated in the United States (according to reports received in the Dairy Cattle Research Branch). Some no longer exist, but sires used in such organizations may be proved or reproved, in which case reference will be made to the organization in the proved-sire record.

STATE ORGANIZATION				STATE ORGANIZATION			
Name	Code	Code	Name	Name	Code	Code	Name
Maine	11	02	Androscoggin Valley ABA	Wisconsin	35	12	Trempealeau Co-op. ABA
Maine	11	03	Androscoggin Valley & Central Maine ABA	Wisconsin	35	13	Tri County ABA
Maine	11	04	Central Maine ABA	Wisconsin	35	05	*Tri State Co-op. ABA
Maine	11	01	*Maine Breeding Co-op. Inc.	Wisconsin	35	14	University of Wisconsin ABA
New Hampshire	12	01	New Hampshire ABA	Wisconsin	35	15	Vernon Co. Co-op. ABA
New Hampshire	12	03	*New Hampshire-Vermont ABA	Wisconsin	35	16	Wisconsin Experimental Breeding Project ABA
New Hampshire	12	02	Willow Spring ABA	Minnesota	41	19	Aitkin Co. ABA
Vermont	13	03	Agri. Experimental Sta. ABA	Minnesota	41	05	Barnum ABA
Vermont	13	01	Central Vermont ABA	Minnesota	41	06	Central Minnesota ABA
Vermont	13	02	Vermont Co-op. ABA Inc.	Minnesota	41	04	*Consolidated Breeders Co-op. ABA
Massachusetts	14	02	Bristol Co. Farm Bureau Inc. ABA	Minnesota	41	07	Floodwood Co-op. ABA
Massachusetts	14	01	Massachusetts ABA Inc.	Minnesota	41	20	Friendly Valley ABA
Rhode Island	15	01	Rhode Island Co-op. ABA Inc.	Minnesota	41	14	Land O'Lakes Creameries Inc. ABA
Connecticut	16	01	Connecticut ABA Inc.	Minnesota	41	01	*Minnesota Valley ABA
Connecticut	16	02	Fairfield-New Haven ABA	Minnesota	41	02	Minnesota Valley and Southern Minnesota ABA
Connecticut	16	03	Litchfield Co. ABA	Minnesota	41	08	North Minnesota ABA
Connecticut	16	04	*New England Selective ABA	Minnesota	41	21	North St. Louis Co. ABA
New York	21	03	Broome Co-op. ABA Inc.	Minnesota	41	03	Northwest Minnesota ABA
New York	21	02	Broome Tioga Co-op. ABA Inc.	Minnesota	41	22	Pine Co. ABA
New York	21	04	Cortland ABA Inc.	Minnesota	41	17	Roseau Co. Creameries ABA
New York	21	01	*New York Artificial Breeders Co-op. Inc.	Minnesota	41	17	Southern Minnesota Breeding Federation ABA
New York	21	05	Roundout ABA	Minnesota	41	18	Swink AB Corp.
New York	21	06	Seneca Co-op. ABA Inc.	Minnesota	41	11	Tilney Farms ABA
New York	21	07	Sullivan Co. ABA	Minnesota	41	16	Watowan Truman Co-op. Creamery ABA
New Jersey	22	07	Burlington Co. ABA	Minnesota	41	13	West St. Louis Co. ABA
New Jersey	22	04	Morris Co. Co-op. ABA Inc.	Minnesota	41	12	Willard Co-op. ABA
New Jersey	22	05	New Jersey Experiment Station ABA	Iowa	42	10	Crawford Co. ABA
New Jersey	22	03	*New Jersey Co-op. ABA Inc.	Iowa	42	02	*Eastern Iowa ABA Inc.
New Jersey	22	06	Plainsboro ABA	Iowa	42	04	Humbolt Co-op. ABA
New Jersey	22	01	*Sussex Co-op. ABA Inc.	Iowa	42	08	*Iowa Breeders Co-op. ABA
New Jersey	22	08	Walker-Gordon ABA	Iowa	42	03	Iowa Dairy Genetics Inc. ABA
Pennsylvania	23	03	Clarion Co. ABA	Iowa	42	05	Linn Co. Co-op. ABA
Pennsylvania	23	02	*First Pennsylvania Co-op. ABA	Iowa	42	06	North Iowa Co-op. ABA
Pennsylvania	23	06	Golden Genes ABA Inc.	Iowa	42	01	Northwest Iowa Co-op. ABA
Pennsylvania	23	07	*Lehigh Valley Co-op. ABA	Iowa	42	09	Palo Alto Co-op. ABA
Pennsylvania	23	04	*NEPA Co-op. ABA	Iowa	42	07	Western Iowa ABA
Pennsylvania	23	08	*Southeastern Pennsylvania Co-op. ABA	Missouri	43	09	AVA ABA
Pennsylvania	23	05	*Western Pennsylvania Co-op. ABA	Missouri	43	01	East Missouri ABA
Pennsylvania	23	01	Zimmerman Dairy Farm ABA	Missouri	43	02	*M. F. A. ABA
Ohio	31	01	*Central Ohio Breeding Association	Missouri	43	03	Mid West ABA
Ohio	31	05	Northeast Ohio Co-op. ABA	Missouri	43	04	Missouri Dairy Breeders ABA
Ohio	31	02	*Northern Ohio Breeding Association Inc.	Missouri	43	05	Osage Farnis ABA
Ohio	31	06	Northwest Ohio ABA	Missouri	43	08	Southwest Missouri ABA
Ohio	31	03	Trumbull-Ashtabula ABA	Missouri	43	06	Trenton ABA
Ohio	31	04	Western Ohio ABA	South Dakota	46	01	South Dakota Co-op. ABA
Indiana	32	12	Bottema Farms ABA	Nebraska	47	09	Central Nebraska Non-stock Co-op. ABA Inc.
Indiana	32	03	Elkhart Co. ABA	Nebraska	47	07	Dairy Breeders Enterprise ABA
Indiana	32	04	Harrison ABA	Nebraska	47	03	Douglas Co-op. ABA
Indiana	32	08	Harry Rosenbury ABA	Nebraska	47	04	Lancaster Non-stock Co-op. Dairy ABA
Indiana	32	05	Indiana ABA	Nebraska	47	01	*Nebraska Dairy Breeders ABA
Indiana	32	13	Indianapolis Co-op. ABA	Nebraska	47	05	Norfolk Non-stock Co-op. ABA
Indiana	32	06	Indiana State Institutions ABA	Nebraska	47	06	University of Nebraska ABA
Indiana	32	02	*John A. Newman and Sons ABA	Kansas	48	01	*Kansas ABA
Indiana	32	07	LaPorte Co-op. ABA Inc.	Delaware	50	01	Delaware Co-op. ABA Inc.
Indiana	32	16	North Benton-Newton-Jasper ABA	Delaware	50	02	New Castle Co-op. ABA
Indiana	32	14	Producers Creamery ABA	Maryland	51	01	Maryland Co-op. ABA Inc.
Indiana	32	09	Ross Farm ABA	Maryland	51	02	*Maryland-West Virginia Co-op. ABA
Indiana	32	18	Southern Indiana ABA	Virginia	52	08	Blue Ridge ABA Inc.
Indiana	32	15	Steuben ABA	Virginia	52	10	Culpeper ABA Inc.
Indiana	32	11	Topeka ABA	Virginia	52	02	Franklin Co. ABA Inc.
Indiana	32	10	Walter H. Ball ABA	Virginia	52	03	Loudoun Co. ABA Inc.
Illinois	33	09	American Dairy Guernsey ABA	Virginia	52	06	*North Va. Co-op. ABA Inc.
Illinois	33	04	Central Illinois ABA	Virginia	52	04	Pulaski Co-op. ABA
Illinois	33	03	*Curtiss Improved Stud Service Inc.	Virginia	52	09	Shenandoah Valley ABA
Illinois	33	05	Eastern Stephenson ABA	Virginia	52	07	Southeast Virginia ABA Inc.
Illinois	33	06	Inter Co. ABA	Virginia	52	05	Valley of Virginia Co-op. ABA Inc.
Illinois	33	01	*Northern Illinois Breeding Co-op.	Virginia	52	01	*Virginia ABA Inc.
Illinois	33	07	Shelby County ABA	West Virginia	54	01	West Virginia Co-op. ABA
Illinois	33	02	*Southern Illinois ABA	North Carolina	55	04	Forsyth Co. ABA
Illinois	33	08	Tri County ABA	North Carolina	55	01	*North Carolina Inst. Breeders ABA
Michigan	34	04	Grand Valley ABA	North Carolina	55	02	North Carolina State College ABA
Michigan	34	05	Hillsdale ABA	North Carolina	55	03	Southeastern ABA
Michigan	34	01	*Michigan Co-op. ABA Inc.	South Carolina	56	02	*Chester Co-op. ABA
Michigan	34	03	North Kent ABA	South Carolina	56	01	Clemson College ABA
Michigan	34	02	Zeeland ABA	South Carolina	56	03	South Carolina Co-op. ABA
Wisconsin	35	75	*American Breeders Service	Florida	58	01	Broward County ABA
Wisconsin	35	01	*Associated Breeding Service ABA Inc.	Kentucky	61	01	*Kentucky ABA Inc.
Wisconsin	35	02	*Badger Co-op. ABA	Tennessee	63	01	*East Tennessee ABA
Wisconsin	35	18	Central Wisconsin Co-op. ABA	Tennessee	63	04	Maury-Williamson ABA Inc.
Wisconsin	35	20	Clark County ABA	Tennessee	63	02	*Tennessee ABA
Wisconsin	35	07	Clinton Stock Farm ABA Inc.	Tennessee	63	03	*West Tennessee ABA
Wisconsin	35	08	Dane Co-op. ABA	Alabama	64	01	Alabama ABA
Wisconsin	35	09	Dane Iowa Co-op. ABA	Alabama	64	02	Marshall Co. ABA
Wisconsin	35	03	*East Central Co-op. ABA				
Wisconsin	35	19	Langlade Co. ABA				
Wisconsin	35	04	*Piper Brothers Farm ABA				
Wisconsin	35	10	Polk Co. Co-op. ABA				
Wisconsin	35	11	Rock Co. ABA				
Wisconsin	35	06	Southern Wisconsin Co-op. ABA				

\*Indicates those AB Organizations reported in operation January 1, 1961.

STATE		ORGANIZATION	
Name	Code	Code	Name
Mississippi	65	01	Hinds Rankin ABA
Mississippi	65	08	Noxubee Co. ABA
Mississippi	65	06	Mid South ABA
Mississippi	65	02	*Mississippi Co-op. ABA
Mississippi	65	03	Pike Co-op. ABA
Mississippi	65	05	South Mississippi Co-op. ABA
Mississippi	65	07	Tippah Co. Fair and Livestock ABA
Mississippi	65	04	Tupelo ABA
Arkansas	71	01	*Arkansas ABA
Louisiana	72	01	*Louisiana AB Co-op. Inc.
Louisiana	72	02	Northern Louisiana Jersey ABA
Oklahoma	73	01	Eastern Oklahoma ABA
Oklahoma	73	02	Northwestern Oklahoma ABA
Oklahoma	73	03	Oklahoma Dairy Breeders ABA
Texas	74	09	Cameron Co. ABA
Texas	74	08	Hill Co. ABA
Texas	74	07	Muenster ABA
Texas	74	04	North Star ABA
Texas	74	02	North Texas ABA
Texas	74	05	Rio Vista ABA
Texas	74	01	*Texas A & M College ABA
Texas	74	03	Texas Tech ABA
Montana	81	01	Western Montana ABA
Idaho	82	01	Bluffview Farm ABA
Idaho	82	03	New Plymouth ABA
Idaho	82	02	Shamrock ABA
Colorado	84	04	Brookridge Farm Dairy ABA
Colorado	84	01	*Colorado State University ABS
Colorado	84	02	North Central Colorado ABA
Colorado	84	05	Surface Creek ABA
Colorado	84	03	Willow Springs ABA
New Mexico	85	01	New Mexico ABA

STATE		ORGANIZATION	
Name	Code	Code	Name
Arizona	86	01	Arizona ABA
Arizona	86	02	*Eads ABA
Arizona	86	03	News ABA
Utah	87	01	*Cache Valley Co-op. ABA
Utah	87	02	Weber Co. ABA
Washington	91	08	Clark Co. ABA
Washington	91	02	Colville Valley ABA
Washington	91	07	Ed. P. Peterson ABA
Washington	91	01	*Evergreen Northwest Breeders ABA Inc.
Washington	91	09	Farwest ABA
Washington	91	03	Mt. Rainier ABA
Washington	91	06	Northeast Co-op. ABA
Washington	91	05	Northwest Co-op. ABA
Washington	91	04	Walla Walla Valley Co-op. ABA
Oregon	92	02	Multnomah ABA
Oregon	92	01	*Oregon Dairy Breeders Association
Oregon	92	03	Yamhill Co. ABA
California	93	02	*Adohr Dairy Farms ABA
California	93	01	*California Dairy ABA
California	93	03	*Excelsior ABA
California	93	04	Golden West ABA Inc.
California	93	05	*Jessup Breeders
California	93	10	*Pacific Breeders Co-op. Inc.
California	93	11	Sacramento Co-op. ABA
California	93	07	San Pasqual ABA Inc.
California	93	06	Santa Clara ABA
California	93	08	Sonoma Marin Co-op. ABA Inc.
California	93	09	Tulare Co-op. ABA
Puerto Rico	94	01	*Puerto Rico ABA
Hawaii	95	03	*Haleakala Dairy Farm ABA
Hawaii	95	02	Moanalua Dairy Ltd. ABA
Hawaii	95	01	Waimea Dairy ABA
Alaska	96	01	*Matanuska Valley ABA

\*Indicates those AB organizations reported in operation January 1, 1961.

#### STATE CODES

11 MAINE  
12 NEW HAMPSHIRE  
13 VERMONT  
14 MASSACHUSETTS  
15 RHODE ISLAND  
16 CONNECTICUT  
21 NEW YORK  
22 NEW JERSEY  
23 PENNSYLVANIA  
31 OHIO  
32 INDIANA  
33 ILLINOIS  
34 MICHIGAN  
35 WISCONSIN  
41 MINNESOTA  
42 IOWA  
43 MISSOURI  
45 NORTH DAKOTA  
46 SOUTH DAKOTA  
47 NEBRASKA  
48 KANSAS  
50 DELAWARE  
51 MARYLAND  
52 VIRGINIA  
54 WEST VIRGINIA

55 NORTH CAROLINA  
56 SOUTH CAROLINA  
57 GEORGIA  
58 FLORIDA  
61 KENTUCKY  
63 TENNESSEE  
64 ALABAMA  
65 MISSISSIPPI  
71 ARKANSAS  
72 LOUISIANA  
73 OKLAHOMA  
74 TEXAS  
81 MONTANA  
82 IDAHO  
83 WYOMING  
84 COLORADO  
85 NEW MEXICO  
86 ARIZONA  
87 UTAH  
88 NEVADA  
91 WASHINGTON  
92 OREGON  
93 CALIFORNIA  
94 PUERTO RICO  
95 HAWAII  
96 ALASKA





TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
AYRSHIRE																
55013	1	2	5290	4.7	249	1954	1	5500	5.0	273	1	8110	343	1	10682	433
						1955	1	5080	4.4	224	1	9770	390	1	10093	391
58028	1	7	11230	3.9	437	1951	1	10040	3.8	382	1	8900	345			
						1952	1	10620	3.8	406	1	8520	334			
						1954	2	11065	3.8	414	2	8735	340			
						1956	1	11100	4.0	448	1	8770	331	1	9919	398
						1957	1	12360	4.2	513	1	10490	418	1	10202	411
						1958	1	12360	3.9	483	1	9870	410	1	10671	449
58179	3	4	8832	4.0	346	1951	1	7760	4.2	322						
						1955	1	9000	3.7	334						
						1957	1	9030	4.0	358	1	8870	376			
						1958	1	10440	3.9	403	1	11790	504			
66191	1	3	10460	3.8	401	1955	1	12160	4.0	490						
						1957	1	10830	3.8	410						
						1958	1	8390	3.6	304	1	7730	452			
68214	2	3	10430	4.2	436	1954	1	12580	4.8	603						
						1957	1	10670	3.8	404						
						1958	1	7800	4.3	332	1	7560	308	1	7586	308
70151	3	5	10130	3.7	376	1953	1	11850	4.0	468						
						1955	1	13860	3.6	504	1	10070	371	1	9603	367
						1956	2	10275	3.8	392	1	10510	437	1	9439	370
						1959	1	7260	3.4	250	1	9230	369	1	10104	391
72194	1	1	7830	4.6	358	1950	1	7830	4.6	358						
72466	1	3	8333	3.9	322	1955	1	8330	3.7	306						
						1957	1	8190	3.7	303						
						1958	1	8480	4.2	358						
72651	5	16	10015	4.2	419	1951	1	10080	4.2	423	1	13700	509			
						1952	1	9180	4.2	389	1	11620	435			
						1953	1	8240	4.5	373	1	12250	487	1	9657	384
						1954	2	8620	4.5	378	2	9865	407	2	10682	433
						1955	4	9170	4.0	366	2	8245	344	2	10093	391
						1956	2	10460	4.0	411	1	8370	391	1	9657	386
						1957	2	8970	4.0	351						
						1958	2	9090	4.2	378	2	10360	512			
						1959	1	12550	4.5	559	1	10760	387	1	10475	401
72906	4	10	7645	4.5	341	1952	1	9260	4.3	394	1	13710	511			
						1953	2	6275	5.2	326	1	9160	400	2	9657	384
						1954	3	7583	4.4	329	3	7173	297	3	10682	433
						1955	3	8543	4.0	344	3	10803	418	3	10093	391
						1956	1	6310	3.7	235	1	2890	148			
74911	5	14	8932	4.0	356	1953	2	9230	4.2	388	2	9750	395	2	9112	359
						1954	3	9580	4.2	400	3	8553	341	3	9105	357
						1955	4	8045	3.9	314	3	8780	350	3	8822	346
						1956	2	10400	4.0	416	2	8130	340	1	7445	290
						1957	2	8100	4.2	338	2	9550	371	2	9276	365
						1959	1	8320	3.9	322	1	9790	390	1	9832	391
77328	1	3	10333	4.1	422	1956	1	11760	4.1	483	1	10320	411	1	7445	290
						1957	1	9350	4.1	387	1	9410	351	1	9276	363
						1958	1	9890	4.0	397	1	11790	504			
78287	3	4	9670	4.1	399	1954	1	10300	4.2	434	1	7960	316	1	8317	319
						1955	1	8860	4.0	354						
						1956	2	9190	4.0	369						
83165	5	10	9135	3.9	358	1953	3	9820	4.0	395	2	8630	322			
						1954	3	9077	3.9	353	2	9995	407	1	10246	401
						1955	2	9650	4.0	381	2	10100	401	2	10301	410
						1956	1	9440	4.2	395	1	9250	399	1	11151	451
						1958	1	7970	3.5	282	1	8120	296			
84598	2	3	10663	4.0	418	1955	1	12540	3.9	490						
						1956	1	9770	4.0	387						
						1958	1	10170	3.9	396						
86779	16	25	9742	4.0	385	1954	1	10480	4.6	484	1	8550	334	1	9766	398
						1955	8	9816	3.9	384	7	10090	401	5	10571	428
						1956	10	9623	4.0	383	6	10635	438	7	9807	393
						1957	4	10548	3.9	410	3	6813	254	3	8960	346
						1958	2	9530	3.8	359	2	11790	504			
88098	2	3	10368	4.6	480	1958	1	9310	4.0	376	1	8530	361	1	10377	415
						1959	2	10455	4.7	487	2	9145	380	2	9745	398
90323	1	2	9755	4.2	414	1955	1	10100	4.3	438	1	8650	345	1	9330	370
						1956	1	9410	4.1	389	1	8370	391			
90392	2	5	9675	3.9	373	1955	1	10910	3.9	423						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
AYKSHIRE																
						1956	1	10650	3.7	397						
						1957	2	8160	4.1	325	1	8610	367			
						1958	1	10030	3.8	382	1	11790	504			
91560	1	2	9830	3.6	351	1953	1	10980	3.8	413						
						1954	1	8680	3.3	289						
91668	1	1	6810	4.7	318	1956	1	6810	4.7	318						
92173	6	11	8590	4.2	354	1953	1	9620	3.7	353						
						1954	4	8298	4.2	339	3	9363	395	3	9149	359
						1955	1	9710	4.1	394	1	10590	385	1	9603	367
						1956	2	10760	4.3	458	2	9370	373	2	9439	370
						1957	2	7540	4.1	302	2	9040	357	2	10290	413
						1958	1	7970	4.2	337				1	9897	396
94423	1	2	7520	4.8	358	1957	1	7120	4.5	321						
						1958	1	7920	5.0	394						
94852	3	3	9060	4.2	379	1959	3	9060	4.2	379	3	8097	358	3	9076	377
95368	12	14	8355	4.0	336	1952	1	7990	4.2	334	1	10100	408			
						1953	1	8540	3.9	335	1	10440	405	1	9298	371
						1955	5	9028	4.0	362	5	10226	405	5	10451	418
						1956	6	8140	4.0	325	5	9572	396	6	9981	394
						1960	1	7540	4.2	316	1	8810	349			
96526	5	11	9466	4.0	374	1955	3	11160	3.8	427	3	9197	360	3	9512	368
						1956	3	9003	4.2	374	3	9943	398	3	9617	386
						1957	2	8220	3.8	316	1	9400	365	2	9456	381
						1958	3	8627	3.8	330	3	9450	365	3	9417	368
99037	1	2	6765	3.7	249	1955	1	7930	3.8	298						
						1957	1	5600	3.6	200						
99217	5	10	7949	3.9	310	1954	1	11370	3.4	385	1	10170	392			
						1955	3	8373	3.9	328	3	10763	429	3	10606	423
						1956	4	7976	4.2	332	4	9815	407	4	10429	422
						1957	1	5850	3.9	231	1	9250	360	1	8960	346
						1958	1	7550	3.7	276	1	8050	275	1	8458	323
102855	1	1	7540	3.9	294	1960	1	7540	3.9	294	1	8110	322			
105105	1	1	6980	3.7	257	1959	1	6980	3.7	257	1	6000	258	1	7652	306
110902	1	1	8760	4.4	383	1959	1	8760	4.4	383	1	8510	321	1	7652	291

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
GUERNSEY																
214348	2	5	6419	4.8	307	1947	5	6514	5.0	323						
233508	1	2	7845	5.3	413	1948 1951	1 1	9160 6530	5.1 5.5	464 361						
240902	2	4	5507	5.0	275	1950 1951 1952	1 1 2	6390 5070 6170	5.0 4.7 5.0	319 239 308						
243801	1	1	10710	5.5	586	1950	1	10710	5.5	586						
252152	1	1	9870	4.6	450	1947	1	9870	4.6	450						
252871	1	2	10300	4.9	498	1950 1952	1 1	10630 9970	4.8 4.9	505 490						
257582	1	1	4230	5.1	214	1951	1	4230	5.1	214						
260741	1	3	8227	5.2	428	1949 1950 1955	1 1 1	7630 8680 8370	5.3 5.1 5.2	403 447 434	1 1	11190 7790	507 412	1	7270	365
267439	1	1	9350	5.4	506	1947	1	9350	5.4	506						
267510	6	18	8931	4.9	426	1947 1948 1949 1950 1951	5 3 5 2 3	9040 8127 9436 9265 8553	4.9 4.8 4.7 5.0 4.3	427 392 443 461 371	4 1 3 3	8943 9910 9217 9080	419 451 427 445			
271646	1	1	10350	4.4	458	1950	1	10350	4.4	458						
272377	1	1	9920	4.8	474	1951	1	9920	4.8	474						
273327	1	2	5370	4.9	261	1952 1953	1 1	5130 5610	5.1 4.7	260 261						
273331	12	29	7939	4.7	372	1954 1955 1956 1957 1958 1959 1960	4 5 5 5 5 3 2	8850 7292 8424 7304 7494 7727 7890	4.6 4.6 4.8 4.7 5.1 4.7 5.0	402 333 401 345 377 365 392	3 4 3 4 3 2 2	7357 9048 11193 7863 9690 7015 7900	349 376 481 385 437 438 393	3 5 3 4 2 2 1	7946 8818 10617 7524 8023 7935 8208	354 360 445 358 377 385 405
275820	1	1	7640	4.6	352	1950	1	7640	4.6	352						
276283	1	3	9877	5.2	516	1949 1951 1952	1 1 1	9970 9570 10090	5.2 5.3 5.2	514 508 526						
276539	5	10	7387	4.7	356	1952 1953 1954 1955 1956 1957	1 2 2 2 2 1	3830 7820 8035 7065 9640 8680	4.2 5.3 5.1 5.0 4.9 4.5	162 409 411 368 473 393	2 2 2 2 2	8300 7395 7675 8625	409 369 358 430	1 2 2 2	7379 8284 8181 8677	365 388 375 396
276615	1	1	7230	4.7	343	1959	1	7230	4.7	343	1	9650	415	1	8840	387
278260	5	13	8878	4.7	416	1950 1951 1952 1953 1957 1958 1959	1 5 3 1 1 1 1	9250 8846 8607 7210 8110 8270 7520	5.0 4.7 4.9 5.3 5.3 5.1 4.9	464 414 416 381 426 423 365	1 1 1 1 1 1 1	7490 9350 9530 9210 7530 9450	323 449 441 465 406 478	1 1 1 1 1 1	8415 9014 8927 8546	395 444 434 428
278808	5	9	8602	4.6	401	1952 1953 1954 1955 1956 1958 1959	3 1 1 1 1 1 1	8017 6030 11970 9560 11370 12960 13590	4.5 4.8 5.1 5.0 4.8 4.4 4.7	363 292 610 479 542 567 644	1 1 1 1 1 1 1	8510 8550 9190 9220 12960 9170	397 428 465 460 567 432	1 1 1 1 1 1	9701 8796 9232 10377 9875	463 411 462 510 473
279696	2	5	7066	4.8	332	1950 1951 1952	2 1 2	8180 5050 6155	4.8 4.8 4.9	385 244 295						
280380	5	18	7606	5.0	382	1950 1951 1952 1953 1954 1955	2 2 2 2 3 3	7550 7110 8540 7970 8387 8663	4.7 5.5 5.1 5.9 5.6 5.3	352 384 430 466 465 463	1 2 2 2 3 3	8860 8585 8035 8225 8820 9217	398 390 346 424 411 436	2 2 2 2 3	9118 9963 9378	452 486 446

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1956	2	5980	3.8	227						
						1957	1	9110	5.8	524	1	9460	485			
						1958	1	9020	5.9	531	1	8870	433		1	9614 486
281669	1	1	7590	5.0	379	1947	1	7590	5.0	379						
283091	4	6	8488	4.5	380	1952	2	9445	4.2	395	1	9730	456			
						1953	1	8790	4.6	405						
						1954	1	9710	4.8	462	1	9740	469	1	8960	431
						1957	1	5120	4.7	242	1	8190	403			
						1958	1	7140	4.9	350	1	8390	410	1	8219	400
283808	26	57	8350	4.9	407	1950	1	5180	4.7	246						
						1951	8	8723	4.6	419	3	9047	437			
						1952	10	8761	4.9	426	4	8293	401			
						1953	11	8668	4.8	412	7	8607	414	8	8122	365
						1954	8	9198	4.8	443	4	9220	421	6	8978	413
						1955	8	8366	4.9	409	7	8576	402	7	8815	414
						1956	4	9748	5.1	495	4	8525	418	4	9061	441
						1957	4	8655	4.7	400	4	7300	331	1	7717	383
						1958	3	9747	4.8	464	3	7513	413	1	7227	324
283865	1	4	11353	4.3	488	1951	1	10640	4.4	464	1	12560	583			
						1952	1	11760	4.5	527	1	11220	535			
						1954	1	11100	4.3	476	1	11820	597	1	9810	489
						1955	1	11910	4.1	483	1	10910	535	1	11173	535
283950	3	6	8366	4.3	354	1949	2	6905	4.3	293						
						1950	1	8120	4.8	389						
						1952	2	8455	4.4	368						
						1956	1	9400	4.0	375	1	9820	536	1	7401	374
284706	5	9	9082	4.7	425	1949	1	9130	4.8	440						
						1950	2	10130	4.6	464						
						1951	3	8933	4.6	409	1	6970	343			
						1952	1	6700	5.1	541						
						1953	1	9746	4.6	464						
						1957	1	8770	4.4	367						
287964	1	3	8067	5.2	420	1955	1	9490	5.2	491	1	10130	488	1	9189	457
						1956	1	7270	5.1	369	1	9700	501	1	9352	465
						1957	1	7440	5.4	401	1	9330	469	1	9450	485
288783	1	1	10230	5.2	535	1951	1	10230	5.2	535						
288894	1	1	10540	4.8	509	1950	1	10540	4.8	509						
288934	2	4	9009	4.5	405	1952	1	8070	4.3	350						
						1953	2	10750	4.6	494	2	9340	444	2	8557	415
						1954	1	8340	4.7	392	1	9210	426	1	9592	447
288955	1	2	9930	4.4	435	1957	1	8720	4.5	395	1	8900	398	1	8557	382
						1958	1	11140	4.3	474	1	10200	434	1	10595	467
290578	1	3	6747	5.3	360	1952	1	6460	5.3	345	1	8440	407			
						1953	1	6450	5.6	359	1	8760	419	1	8208	398
						1955	1	7310	5.1	375	1	8510	328	1	7379	331
290779	1	1	8590	4.4	381	1950	1	8590	4.4	381						
291288	9	24	8414	5.0	417	1950	2	8170	5.2	424	1	10280	548			
						1951	3	7743	5.0	382	1	8020	397			
						1952	7	8523	5.1	436	3	9097	449			
						1953	5	8376	5.0	419	4	8675	424	4	8014	386
						1954	4	9370	4.8	456	4	8800	420	3	8495	407
						1956	2	10795	5.1	549	2	9955	509	2	8541	441
						1957	1	7880	5.3	418	1	6500	421	1	9243	484
294225	1	6	8632	4.9	418	1950	1	7900	5.0	391	1	10410	604			
						1951	1	7600	4.9	374	1	9140	449			
						1952	1	9110	4.9	444	1	9110	479			
						1953	1	7690	4.8	369	1	7190	402	1	8611	459
						1954	1	8930	4.9	439	1	9490	488	1	9069	463
						1955	1	10560	4.7	492	1	9260	445	1	9309	464
294229	1	2	8585	5.4	465	1952	1	9580	5.2	503						
						1953	1	7590	5.6	426						
296354	2	2	10470	4.8	497	1954	2	10470	4.8	497						
296800	3	10	10779	4.4	475	1947	1	10150	3.8	386						
						1948	2	11510	4.5	510						
						1949	1	11630	4.5	520						
						1952	3	10380	4.3	457	2	12015	517			
						1953	3	10737	4.5	481	3	10440	478	3	10642	492
297717	2	2	9710	5.0	483	1949	1	10230	4.7	479						
						1950	1	9190	5.3	487						
297876	4	12	7641	4.6	355	1953	3	7677	4.7	364	3	7180	316	3	7641	359
						1954	3	7257	4.7	344	3	8673	378	3	7597	352
						1955	2	7710	4.9	373	2	8190	363	2	7935	367
						1956	2	7685	4.5	359				2	7908	369
						1957	1	7520	4.7	353	1	7150	320	1	8273	371
						1958	1	7890	5.1	403	1	7440	315	1	8360	397



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
GUERNSEY																	
298806	1	1	7720	4.9	374	1952	1	7720	4.9	374							
303093	1	2	7195	5.4	392	1950	1	8280	5.7	476							
						1951	1	6110	5.0	307							
303522	26	45	8151	4.8	391	1952	3	7397	4.7	353	1	9110	4.63				
						1953	12	8707	4.8	420	6	9107	4.18		5	9217	4.69
						1954	12	8686	4.9	429	10	8751	4.14		6	9142	4.43
						1955	6	7693	4.6	348	5	8692	4.08		4	7837	3.60
						1956	7	8219	4.9	396	6	9373	4.40		7	9578	4.61
						1957	2	7905	4.5	351	1	7150	3.64				
						1958	1	8820	4.5	393							
						1959	2	8415	4.6	386	1	7900	3.76		2	9276	4.41
305336	1	2	5570	5.4	301	1948	1	5990	5.4	325							
						1949	1	5150	5.4	277							
307811	4	11	8260	5.1	417	1951	1	9970	4.5	443	1	10400	4.87				
						1952	3	7743	5.5	419	3	8123	3.94				
						1953	3	8677	5.1	441	3	8393	4.10		3	8756	4.22
						1954	2	7250	4.6	333	2	10175	4.68		2	9287	4.78
						1955	2	9010	4.7	426	2	9680	4.37		2	9778	4.50
309337	4	7	7743	5.0	387	1950	1	9450	5.0	476							
						1951	1	8790	4.6	406							
						1952	2	6965	5.3	374							
						1953	2	7190	5.0	359							
						1954	1	8090	4.3	345	1	8260	4.58		1	9777	4.84
310692	3	4	6423	4.9	313	1950	1	5530	5.1	284							
						1951	2	6545	4.9	316							
						1952	1	6830	4.6	331							
311574	6	14	8571	4.5	385	1954	3	8477	4.4	372	2	9055	4.32		1	8644	4.16
						1955	5	8368	4.6	386	5	8668	4.10		5	8267	3.64
						1956	2	7780	4.5	349	2	7160	3.44		2	8045	3.78
						1957	3	8857	4.5	397	3	8697	4.23		2	7930	3.52
						1958	1	12170	4.1	504	1	11410	5.40		1	12448	6.07
311775	11	23	8057	5.0	401	1952	2	10060	4.8	483	1	9100	4.46				
						1953	4	9060	5.1	458	3	8370	3.99		3	7903	3.87
						1954	1	6980	4.9	341							
						1955	2	10630	5.0	527	1	8110	3.95		1	7750	3.73
						1956	5	7390	5.2	362	4	8945	3.95		1	8230	4.08
						1957	4	8768	4.9	429	3	10293	4.04		2	9936	4.14
						1958	2	8620	4.9	419							
						1959	3	6660	4.5	301	1	8560	3.82		2	8388	3.96
311783	1	3	5563	4.3	241	1951	1	3480	4.0	138	1	7480	3.59				
						1952	1	8350	4.4	371	1	5560	2.48				
						1953	1	4660	4.4	214	1	7580	3.77		1	8121	3.88
312077	2	6	8361	4.9	391	1951	1	11710	4.6	537	1	12390	6.28				
						1952	2	8300	5.0	396	1	14520	6.96				
						1953	1	14340	3.9	563	1	13470	6.62		1	9875	4.84
						1955	1	11610	4.5	526	1	11610	6.19		1	10420	5.36
						1956	1	9590	4.4	423	1	10390	5.43		1	11064	5.79
312081	1	1	8550	4.5	382	1952	1	8530	4.5	382							
312969	1	1	6000	4.9	292	1949	1	6000	4.9	292							
314163	1	2	9820	4.1	401	1952	1	9990	4.1	409	1	7800	3.46				
						1953	1	9650	4.1	373	1	6830	3.17				
315130	17	42	8404	4.7	392	1953	4	8705	4.7	405	4	9128	4.50		4	8355	4.09
						1954	9	8519	4.7	395	9	8746	3.99		7	8128	3.69
						1955	9	8224	4.7	390	7	9359	4.17		7	8494	3.74
						1956	6	8185	4.8	396	5	7316	4.52		5	8975	4.15
						1957	6	8537	5.1	438	4	9945	4.05		4	8992	4.01
						1958	6	9620	4.6	438	4	11345	4.77		1	12448	6.07
						1959	2	9860	3.9	384	2	9250	4.27		2	10165	4.66
317354	3	4	7898	4.3	337	1950	1	7690	4.1	314							
						1952	2	9340	4.1	378							
						1953	1	6790	4.7	322							
318309	2	2	9865	5.2	508	1951	1	9460	5.1	483							
						1952	1	10270	5.2	533							
318428	18	58	9321	4.9	458	1947	2	11535	5.0	569							
						1948	2	7950	4.7	376							
						1949	4	9210	5.2	474							
						1950	2	6945	5.4	374							
						1951	3	9937	5.2	509	1	9580	4.31				
						1952	11	9761	4.7	465	5	9706	4.63				
						1953	7	9754	4.8	470	4	8798	4.59		4	9709	4.72
						1954	9	9258	4.9	449	8	8550	3.92		8	9536	4.35
						1955	8	11099	4.8	531	4	10196	4.87		7	10156	4.60
						1956	7	10039	4.9	496	7	8146	4.22		5	9835	4.83
						1957	2	11065	5.3	581	2	10440	5.19		1	11129	5.70
						1958	1	10450	5.8	606	1	8000	3.55		1	8557	4.11
318429	9	26	7524	5.8	423	1949	1	7930	5.8	460							
						1950	3	8540	5.6	494	1	7470	4.25				
						1951	6	7493	6.0	453	3	9165	5.09				
						1952	6	7532	5.7	426	3	10570	5.21				
						1953	5	6180	5.5	344	3	7957	4.16		3	8277	4.58

TABLE 15.--DAUGHTER-AVERAGE OF SIRS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.						
GUERNSEY																						
319654	14	32	8395	4.7	392	1954	2	6010	5.5	331	2	9155	445	1	7794	397						
						1955	1	6860	5.8	398	1	10200	484	1	8393	402						
						1956	1	6340	5.9	374	1	9400	473	1	8164	405						
						1957	1	5850	5.5	323	1	7240	363	1	7521	373						
						1950	1	10770	5.0	544												
						1951	4	8715	4.7	399												
						1952	9	8943	4.7	413	1	7990	442									
						1953	4	8803	4.9	426	2	8180	420	2	7755	376						
						1954	5	8316	4.9	407	3	8590	422	3	8666	419						
						1955	2	7815	4.6	364	2	9095	425	2	8257	393						
321462	26	61	7839	4.9	384	1956	1	7720	4.4	340	1	8260	369	1	8033	379						
						1957	1	8340	4.2	353	1	5690	267	1	8153	371						
						1958	2	8570	4.1	354	1	7430	352	1	8633	385						
						1959	2	8310	4.3	357	1	9090	435	1	8687	440						
						1960	1	7570	4.6	346	1	8370	427									
						1952	1	5150	4.9	251												
						1953	4	7738	4.6	359	3	8950	417	3	7943	371						
						1954	9	8027	5.0	395	8	9368	441	7	8949	417						
						1955	14	7890	4.9	387	13	9062	411	13	8209	383						
						1956	14	7282	5.1	367	12	9114	422	12	8969	410						
321668	31	74	8359	4.8	400	1957	11	8811	4.9	436	9	8861	422	8	8728	415						
						1958	5	8844	4.8	421	5	9850	461	3	8815	403						
						1959	3	7273	5.1	370	3	7730	374	3	8255	402						
						1951	1	8860	4.2	368	1	9520	421									
						1952	7	8151	4.8	385	5	8914	433									
						1953	14	8169	5.0	412	12	9140	430	7	8409	416						
						1954	13	8018	4.9	388	11	8439	406	11	8229	405						
						1955	12	8755	4.7	404	12	8769	422	11	8402	399						
						1956	12	8626	4.7	404	11	9175	432	9	8525	414						
						1957	7	8934	4.8	428	7	8417	409	5	9115	439						
323665	4	7	10147	4.8	466	1958	3	9090	4.5	408	3	9590	440	2	8426	397						
						1959	3	9293	4.5	418	3	8370	376	3	9010	419						
						1960	2	9060	4.2	380	1	8780	390									
						1951	2	9820	5.0	486												
						1952	2	8090	5.4	422												
						1953	1	8920	5.4	485												
						1954	1	8090	5.4	439												
						1955	1	13830	3.5	489	1	10260	432									
						325503	2	2	10255	4.8	483	1953	1	11940	4.5	538	1	9660	436	1	10202	460
						1959	1	8570	5.0	428	1	7690	376	1	8175	401						
329150	1	1	9340	4.4	411	1959	1	9340	4.4	411	1	9150	395	1	9897	459						
331204	3	3	12163	4.9	583	1956	1	8530	5.6	475												
1957	1	10430	4.8	503																		
1959	1	17530	4.4	772	1	12280	607	1	10944	560												
331791	5	13	8349	4.6	383	1953	2	8925	4.9	441	2	6615	317									
1954	5	8256	4.6	373	4	9428	378	4	9418	436												
1955	2	8390	4.8	400	2	9430	332	2	11772	443												
1956	2	10015	4.3	430	2	9185	388	2	11303	425												
1957	1	9150	4.4	403	1	9610	430	1	11641	437												
1958	1	8910	4.2	378	1	9330	391	1	9276	404												
331661	4	10	7333	5.0	364	1952	1	9430	4.5	427	1	10720	484									
1953	3	8137	5.0	402	3	9163	437	3	8226	399												
1954	3	6740	4.8	322	3	9237	456	3	8880	435												
1955	1	8310	4.6	384	1	10420	485	1	9112	438												
1956	1	7460	4.8	360	1	9800	471	1	8807	420												
1957	1	6450	5.3	340	1	6350	309	1	7096	356												
332960	3	13	9569	4.9	471	1948	1	10280	5.2	534	1	11490	431									
1949	2	8760	5.2	452	1	8100	373															
1951	1	9120	5.1	468	1	10060	468															
1952	1	9490	5.3	500	1	9710	454															
1953	2	10400	4.7	485	2	9510	470	1	9505	462												
1954	1	10300	4.4	457	1	9210	449	1	10104	489												
1955	1	9460	4.8	451	1	10150	491	1	9657	474												
1956	1	9910	5.0	495	1	10430	510	1	9679	476												
1957	1	10770	4.7	509	1	10260	508	1	9832	488												
1958	1	8870	5.0	439	1	10240	500	1	9854	489												
1959	1	9450	4.8	458	1	9480	461	1	10192	511												
334282	7	18	7687	4.8	371	1952	2	8790	5.0	442	2	10290	446									
1953	3	7957	4.8	384	3	10803	440	2	9352	446												
1954	3	8467	5.1	430	2	8835	427	3	9003	424												
1955	4	8250	4.8	390	3	10333	467	3	9225	421												
1956	3	8733	4.7	413	3	8510	407	3	8734	413												
1957	2	5555	4.7	259	2	8385	379	2	6448	303												
1958	1	5240	4.5	237																		
334545	10	24	8842	5.0	443	1953	1	12580	4.8	607	1	9510	463	1	10431	507						
1954	7	8346	5.2	429	7	8764	400	6	8917	417												
1955	3	8090	5.1	409	3	9130	445	3	9203	433												
1956	4	10163	5.0	506	2	9260	394	2	9358	422												
1957	5	9860	5.0	491	3	9873	440															
1958	2	8370	4.9	409	2	10150	419	2	10028	412												



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
						GUERNSEY										
						1956	5	8498	4.4	373	4	9265	389	4	8843	417
						1957	2	7230	4.7	337	2	9960	426	1	8993	470
						1959	2	7150	4.8	342	1	7990	378	2	8377	392
354224	67	135	8705	4.7	404	1952	1	10300	5.1	529						
						1953	14	8716	4.7	408	10	8332	408	8	8339	414
						1954	21	8766	4.7	408	18	8736	423	18	8765	420
						1955	36	8973	4.6	411	34	9118	433	30	9374	441
						1956	27	8421	4.7	393	20	9504	458	20	9455	449
						1957	14	7987	4.7	378	12	8679	412	10	8955	426
						1958	11	8886	4.7	413	8	9071	426	8	9452	457
						1959	9	8711	4.6	403	6	9033	430	6	9069	438
						1960	2	8825	4.5	397	1	12040	495	1	11532	495
357179	1	1	11210	5.0	564	1954	1	11210	5.0	564	1	8010	380	1	6409	308
358738	1	3	7093	5.8	411	1958	2	7440	5.8	434	1	8930	466	1	9418	477
						1959	1	6400	5.7	364	1	9200	494	1	9374	482
364307	19	50	8410	4.9	410	1955	14	8130	4.8	393	9	9220	454	11	9108	429
						1956	12	8475	4.9	417	9	9176	438	10	9214	443
						1957	14	8670	4.9	427	9	9528	451	5	9136	419
						1958	8	8868	4.8	422	6	10600	470	3	10170	442
						1959	2	9125	5.0	447	1	12100	462	2	9058	365
364825	1	1	9170	4.5	411	1956	1	9170	4.5	411						
365001	3	4	8743	4.6	398	1957	1	9520	4.5	426						
						1958	1	9400	4.2	394						
						1959	1	8150	4.9	398	1	7240	342	1	7837	374
						1960	1	8620	4.5	387	1	9080	469			
365641	7	12	7736	5.6	434	1951	4	7988	5.7	451	2	8270	450			
						1952	2	7415	5.7	422	2	8165	429			
						1953	4	8353	5.4	449	4	8115	441	4	8442	441
						1955	1	8500	5.3	447	1	8680	412	1	8393	402
						1956	1	8280	5.7	468	1	9130	460	1	8164	405
366648	11	18	9107	4.3	435	1955	6	8755	4.9	418	4	9220	427	5	10222	469
						1956	5	10314	4.8	489	4	9958	448	4	10200	482
						1957	4	9840	4.7	457	4	11823	544	4	10325	488
						1958	2	8465	4.8	404	1	9500	402	1	9548	451
						1959	1	7830	4.8	379	1	7330	359	1	8818	410
369402	4	11	7890	4.9	374	1953	4	8510	4.6	381	1	10230	445	1	10628	486
						1954	3	7480	4.8	348	1	9990	443	1	10279	480
						1955	1	9770	4.2	409	1	9400	393	1	9472	427
						1956	1	12080	4.0	488	1	9390	436	1	9963	451
						1958	1	9800	4.1	404	1	8060	408	1	9919	446
						1959	1	8820	4.8	423	1	9120	421	1	9875	444
370225	17	32	8727	4.8	415	1951	2	9120	5.0	451						
						1952	8	8658	4.9	419	2	9785	476			
						1953	7	8031	4.8	381	2	9850	463	2	9816	475
						1954	3	8017	5.3	420	1	9060	429	1	9330	482
						1956	3	7670	4.9	364	1	11190	521	2	8203	435
						1957	3	10283	4.9	488	2	11825	542	1	7303	393
						1958	2	9055	4.5	405	2	10665	464	1	9450	417
						1959	4	9723	4.3	415	3	8953	439	3	9323	444
370862	1	1	9260	4.9	452	1954	1	9260	4.9	452	1	7710	358			
371883	1	2	9620	4.2	405	1955	1	9050	4.2	378	1	10580	554	1	9995	488
						1956	1	10190	4.2	431	1	2890	148			
373258	1	1	7660	5.3	406	1956	1	7660	5.3	406	1	9180	468	1	8469	434
375476	20	35	7909	4.7	371	1952	2	7630	4.6	367	1	9470	456			
						1953	4	7145	4.8	339	4	8330	380	4	8170	397
						1954	3	8390	4.4	368	3	8843	395	2	8971	425
						1955	6	8368	4.7	396	5	9394	435	5	9239	431
						1956	8	7605	5.0	378	6	9592	441	5	9435	435
						1957	4	8985	4.8	434	3	11150	506	3	9109	438
						1958	5	8428	4.7	397	3	10240	481	2	9701	480
						1959	2	6320	4.7	304	2	9095	444	2	8644	427
						1960	1	10070	4.4	439	1	10500	470	1	10508	464
376019	2	4	9844	4.4	429	1956	2	11420	4.2	475	2	11185	614	2	10529	546
						1957	2	9240	4.4	399						
379201	5	9	10083	4.5	453	1955	1	7840	5.1	396	1	9000	413	1	8186	383
						1956	1	12640	4.1	518				1	10551	458
						1958	2	11800	4.8	564	1	11300	536	1	11892	555
						1959	4	9005	4.4	393	2	8310	362	2	8578	392
						1960	1	10240	4.2	425	1	8510	380			
379457	1	3	9020	4.3	388	1952	1	8560	4.4	379						
						1953	1	8880	4.3	381	1	8030	376	1	8785	423
						1955	1	9620	4.2	404	1	9450	429	1	6976	338
380662	15	35	8685	4.6	399	1954	1	6790	3.9	266	1	7300	319	1	7303	307
						1955	7	8796	4.6	402	6	7758	379	6	7654	362
						1956	9	8434	4.3	365	8	8575	409	9	8763	404



TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1957	3	7173	4.3	312	3	8497	367	3	8142	368
						1958	8	9613	4.8	472	5	10074	496	4	9625	460
						1959	6	10167	4.8	498	5	8998	421	5	10651	515
						1960	1	7890	3.9	308	1	8800	394			
380962	4	14	8940	4.9	436	1951	1	9890	4.6	455	1	6370	308			
						1952	5	9494	4.7	447	5	8728	422			
						1953	4	8555	5.1	437	4	8483	427	4	8917	433
						1954	1	9350	4.6	426	1	9330	453	1	10104	489
						1955	1	8100	4.6	375	1	10860	527	1	9657	474
						1956	1	8620	4.5	388	1	11110	559	1	9679	476
						1957	1	8590	4.6	394	1	10960	543	1	9832	488
385569	6	18	8838	4.8	426	1955	5	9140	4.8	438	5	9948	507	4	9151	447
						1956	5	9046	4.8	435	5	10618	517	4	9412	471
						1957	5	9666	4.8	470	5	9786	424	2	9080	402
						1958	2	9660	5.1	487	2	10810	509			
						1960	1	8420	5.0	425	1	7180	370			
386145	5	15	9161	4.7	423	1953	2	9385	4.8	447				2	8905	426
						1954	2	8195	4.9	402	2	8980	444	2	8829	420
						1955	5	9618	4.6	440	3	9033	434	3	8633	399
						1956	3	8413	4.8	399	3	8703	422	2	8916	455
						1957	1	7760	4.6	359	1	9030	433	1	8404	415
						1959	2	7655	4.5	347	2	6765	320	2	7161	359
388620	11	28	7527	5.3	394	1950	2	7445	5.2	387						
						1951	5	8332	5.3	441						
						1952	6	7053	5.3	377	1	9000	468			
						1953	2	7250	5.5	401	2	9085	464	2	9609	488
						1954	3	8713	4.8	419	2	8910	466	2	9423	474
						1955	1	6000	5.2	312	1	9980	505	1	9995	500
						1956	2	8005	4.7	380	2	10550	513	2	9330	453
						1957	3	7683	5.0	381	3	7733	344	3	8680	436
						1958	2	8070	4.9	391	2	9295	450	2	8088	393
						1959	2	7320	4.8	352	2	8260	391	2	7630	373
391225	1	1	5460	5.6	305	1957	1	5460	5.6	305						
392288	2	3	7303	5.4	380	1955	1	7080	5.7	402	1	9240	443			
						1956	1	4030	5.9	237	1	9060	451	1	9418	461
						1958	1	9050	4.9	440	1	8520	343	1	7227	324
396068	27	74	9455	5.4	510	1950	2	9825	5.6	548	1	8270	435			
						1951	5	9536	5.7	534	3	10170	545			
						1952	12	8437	5.4	455	6	10105	514			
						1953	14	9576	5.5	527	9	11484	584			
						1954	11	10312	5.3	548	11	10808	568	6	9490	483
						1955	9	10474	5.4	561	9	10244	532	9	9759	498
						1956	8	10783	5.2	565	6	10900	585	8	10192	529
						1957	3	9393	5.5	520	3	12203	652	3	10409	549
						1958	4	9948	5.1	506	4	11040	589	3	11020	584
						1959	6	10012	5.3	530	5	10604	542	5	10656	542
397307	1	1	8290	4.9	409	1951	1	8290	4.9	409						
400062	4	9	9374	4.9	458	1955	2	8425	5.4	456	2	10365	551	2	10535	520
						1956	3	10840	4.7	510	3	11120	509	3	11245	496
						1957	2	9075	5.0	456	2	11380	526	2	10497	506
						1958	1	8590	4.4	377	1	11790	504			
						1959	1	10340	4.8	497	1	11710	586	1	12088	653
400723	1	1	8600	5.6	484	1957	1	8600	5.6	484						
401129	3	7	8405	5.0	424	1955	2	8000	4.8	385	2	11970	520	1	7968	375
						1956	2	8830	5.1	452						
						1957	1	7260	4.2	308	1	10580	505	1	8022	368
						1958	1	7560	4.7	356	1	13360	570			
						1959	1	6480	5.0	325	1	8790	397	1	8578	392
404005	1	3	9100	5.1	469	1955	1	9670	4.9	478	1	9620	454	1	9276	440
						1956	1	8990	5.2	468	1	9100	455	1	9810	476
						1957	1	8640	5.3	460	1	9420	468	1	9091	453
409032	82	181	9078	4.7	426	1952	2	9820	4.7	458	1	9530	497			
						1953	13	9790	4.6	453	6	8238	377	7	9659	429
						1954	35	9583	4.6	437	30	9033	429	22	8685	408
						1955	29	9133	4.8	434	26	9407	447	24	9201	456
						1956	30	9424	4.8	445	22	10489	501	20	9446	447
						1957	27	8987	4.8	432	21	9474	441	16	9316	456
						1958	25	8905	4.9	435	18	9253	453	12	9128	455
						1959	12	9808	4.9	479	11	9952	501	10	10379	513
						1960	8	10299	4.7	486	6	9948	482	1	12731	541
410589	1	1	7730	5.4	417	1953	1	7730	5.4	417	1	12040	535			
410890	10	21	8850	4.5	394	1952	2	8370	4.3	362						
						1953	6	9358	4.4	410	4	8438	387	3	9610	448
						1954	4	9063	4.5	398	4	8995	434	4	9034	426
						1955	1	10560	4.9	512	1	10990	555	1	10704	534

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1956	4	8515	4.8	406	1	11320	619	2	10225	501
						1957	2	8655	4.8	420	2	10875	522	1	10584	594
						1958	2	8140	4.7	377	1	13350	575	1	11619	598
411967	19	34	8554	4.7	400	1953	4	8193	4.7	377	3	8317	395	2	8469	400
						1954	5	8440	4.8	406	4	8865	455	4	9156	452
						1955	7	9120	4.7	426	6	8883	413	4	9535	438
						1956	9	7856	4.8	378	9	9403	452	8	9129	455
						1957	3	8383	5.0	417	2	9055	450	2	8252	404
						1958	3	10047	4.6	462	1	10080	481	1	9527	488
						1959	3	7910	4.7	378	3	9393	413	3	9545	418
412090	3	6	8927	4.0	358	1956	2	10410	4.2	438	1	10940	435	1	10715	422
						1957	3	9167	4.0	362	2	10795	450	2	10497	438
						1958	1	5240	3.5	185	1	9130	410	1	9396	407
413436	2	11	9253	5.4	491	1950	1	8990	5.9	531						
						1951	2	9775	5.5	528	1	8670	442			
						1952	2	9090	5.5	488	2	7915	394			
						1953	2	8715	5.6	478	2	7290	381	2	9189	481
						1954	1	6360	5.8	371	1	8020	399	1	8535	458
						1955	1	7180	5.9	423	1	12230	592	1	8862	455
						1956	1	8590	5.2	447				1	10170	508
						1958	1	9250	5.3	489	1	9250	489	1	10497	499
414243	6	11	8066	5.3	423	1952	2	8630	5.6	476						
						1953	3	7897	5.5	434						
						1955	1	8300	4.9	404	1	8710	462	1	9330	453
						1956	1	9860	4.9	478	1	9810	474			
						1957	2	7775	4.3	332	2	6410	311	2	8295	411
						1958	1	8550	4.8	410	1	9570	463	1	8088	393
						1959	1	9000	4.7	425	1	8010	382	1	7630	373
416675	3	4	9460	4.5	421	1957	1	8230	4.5	368						
						1958	3	9710	4.5	437	2	9470	400	2	9167	400
418242	1	1	6860	5.6	380	1953	1	6860	5.6	380	1	7930	415	1	8622	462
421509	1	1	10050	3.6	366	1959	1	10050	3.6	366	1	9090	398	1	9897	459
421539	1	1	9620	4.8	462	1960	1	9620	4.8	462	1	8780	424	1	8535	425
422644	3	4	6920	5.5	374	1953	1	8540	5.2	442	1	8890	449	1	8753	434
						1954	3	6650	5.5	361	3	9650	422	2	8312	410
424536	1	1	8670	4.8	416	1960	1	8670	4.8	416	1	9010	436	1	8535	425
426820	16	26	8426	4.8	402	1953	1	9160	4.6	416	1	9210	403			
						1954	6	8088	4.8	386	5	8534	419	6	8642	402
						1955	8	8110	4.7	381	8	8418	398	7	9555	441
						1956	4	8890	5.3	471	4	9518	503	4	9832	471
						1957	5	10122	4.7	477	3	9857	506	3	9799	491
						1959	1	8280	4.7	389	1	8100	387	1	7630	373
						1960	1	9800	4.6	447	1	9480	399	1	9668	417
428158	4	6	9756	4.6	442	1956	1	12020	4.9	590	1	12830	500	1	12655	477
						1957	2	9075	4.8	428	1	10090	481	1	9974	440
						1958	2	8730	4.4	368	1	11790	504			
						1959	1	9200	4.2	383	1	9820	464	1	11630	482
430238	1	1	9090	4.4	404	1960	1	9090	4.4	404	1	9290	450			
431323	1	1	8360	5.6	466	1956	1	8360	5.6	466						
433384	29	79	8931	4.9	437	1953	3	10410	4.8	491	3	8573	421	3	8604	426
						1954	9	8626	4.9	422	8	8529	406	7	9059	443
						1955	13	7976	5.1	403	12	9364	446	12	9183	440
						1956	18	8849	5.0	438	14	10078	478	14	9787	467
						1957	15	8564	4.9	420	7	9347	438	7	9234	445
						1958	13	9968	4.8	468	7	9329	446	4	9620	457
						1959	6	9068	4.9	445	6	8897	452	5	9060	440
						1960	2	10425	5.0	515	2	9550	472	1	8415	447
435258	1	4	10260	4.9	498	1956	1	11570	4.9	584	1	8600	493			
						1957	1	10870	5.0	540	1	9280	471	1	9407	492
						1958	1	9840	4.7	466	1	9910	522	1	10486	537
						1959	1	8360	4.8	402	1	8110	435	1	9919	510
437282	3	3	8297	4.6	386	1953	1	7370	4.6	356	1	7700	370	1	8644	411
						1954	1	9070	4.7	425	1	9800	439	1	6529	320
						1955	1	8450	4.4	376	1	8350	424	1	7859	363
437283	1	2	8220	5.2	426	1956	1	8130	5.3	433	1	9370	443	1	9418	461
						1957	1	8310	5.0	418	1	9480	500	1	9058	466
439085	14	28	7907	4.7	372	1953	1	7920	4.4	350	1	6910	306	1	9799	421
						1954	5	8750	4.6	402	5	9208	415	5	8977	403
						1955	6	9008	4.4	406	5	9450	430	4	9549	425
						1956	7	7904	5.3	417	5	9540	487	4	9576	471
						1957	4	8325	4.8	395	4	9170	428	3	10151	483
						1958	2	6450	3.9	250	2	9110	385	2	7658	344
						1959	3	9460	4.4	416	3	10047	485	3	10162	490
443636	2	4	9900	5.3	515	1959	4	9900	5.3	515	2	10270	492	2	9756	487
444417	1	1	10270	4.2	430	1955	1	10270	4.2	430	1	7040	300	1	8044	349

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.	
GUERNSEY																	
444418	36	64	9361	4.6	426	1953	2	8940	4.5	400	1	10300	510				
						1954	9	8723	4.4	389	8	8775	436		7	9064	432
						1955	18	9251	4.5	416	15	9745	446	14	9661	438	
						1956	11	8801	4.8	428	5	10940	536	7	10203	478	
						1957	11	9678	4.7	448	5	9260	443	6	8978	429	
						1958	5	7368	4.8	353	3	9203	463	3	8735	433	
						1959	6	11023	4.2	453	4	9383	440	3	10028	472	
						1960	2	9985	4.4	438	2	8890	389	1	9668	417	
447971	3	3	7550	5.0	374	1959	1	7450	5.4	405	1	8060	401	1	7554	353	
						1960	2	7600	4.8	359	1	7770	371	1	8208	405	
448099	1	1	6890	4.8	331	1959	1	6890	4.8	331	1	9800	472	1	10355	505	
454223	5	6	7862	5.0	391	1955	2	8645	5.0	427	1	8900	420	2	9581	464	
						1956	2	7045	5.2	366	2	9145	433	1	8567	395	
						1957	2	7880	4.8	374	2	10660	489	1	8829	457	
454224	12	23	8764	4.8	417	1954	4	9428	4.7	435	4	8375	380	4	8941	417	
						1955	3	8857	4.5	403	3	8350	391	3	9192	418	
						1956	8	8725	4.9	425	6	9728	456	6	9774	455	
						1957	8	8724	4.8	413	6	8242	382	5	9089	432	
454483	8	8	9109	4.3	396	1954	1	8930	3.9	351	1	9480	397	1	8938	366	
						1955	1	10040	4.5	451	1	9650	491				
						1956	2	10165	4.5	455	1	7520	342	1	9145	412	
						1957	1	9950	4.3	428							
						1958	1	7020	4.1	290	1	9500	458	1	9014	452	
						1959	2	8300	4.4	368	2	8675	394	2	8764	416	
459489	21	50	9151	4.8	437	1954	3	10583	5.2	547	3	10137	492	3	10352	493	
						1955	7	9483	4.7	440	4	9003	429	4	9004	426	
						1956	11	9838	4.8	480	9	10203	482	9	9346	450	
						1957	14	9320	4.9	457	10	8562	427	8	9735	482	
						1958	10	9765	4.8	470	9	9331	450	8	9668	474	
						1959	4	10568	4.5	478	3	8817	428	3	9977	476	
						1960	1	9330	4.5	423	1	9410	410				
461109	1	2	8200	4.7	386	1955	1	8560	4.8	408	1	9490	428	1	9298	468	
						1956	1	7840	4.6	364	1	9900	461	1	9265	444	
461752	1	1	11510	5.1	586	1957	1	11510	5.1	586	1	12600	649	1	11968	665	
470947	6	14	8066	4.9	388	1955	2	8480	4.5	379	2	9715	433	2	9701	423	
						1956	4	7745	5.1	391	2	8280	414	3	8869	441	
						1957	4	8028	4.8	384	2	9225	425	2	9129	424	
						1958	1	9650	4.4	420	1	9040	430	1	9363	447	
						1959	2	9870	4.8	477	1	10740	533	1	11282	553	
						1960	1	8590	4.8	413							
470949	1	1	7340	5.3	387	1955	1	7340	5.3	387							
472164	1	1	7980	5.0	395	1960	1	7980	5.0	395	1	11900	539				
478142	1	3	9627	4.9	471	1956	1	9790	5.0	490	1	11320	511	1	10704	463	
						1957	1	9450	4.8	453				1	10595	468	
						1958	1	9640	4.9	471	1	11790	504				

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	TEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HEKO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
617728	5	19	9735	3.3	315	1947	10	9170	3.3	303							
						1948	5	9396	3.2	300							
						1949	2	13430	2.9	386							
						1950	2	11975	3.2	385							
653086	1	6	13557	3.6	485	1947	1	10280	3.6	369							
						1950	1	13390	3.6	484	1	12950	451				
						1952	1	13060	3.8	497							
						1953	1	14750	3.5	522	1	15290	539	1	11718	399	
						1954	1	14130	3.6	511	1	13080	473	1	13571	470	
						1956	1	15730	3.4	528	1	14170	514				
682048	1	2	10375	3.7	378	1954	2	10375	3.7	378	2	12610	449		2	12350	433
693386	2	2	9255	3.4	314	1947	2	9255	3.4	314							
697599	1	1	15000	3.1	463	1947	1	15000	3.1	463							
703088	2	3	12400	3.3	401	1953	1	14850	3.0	449	1	13580	467	1	13047	461	
						1954	1	12030	3.7	445	1	14550	510				
						1955	1	7870	3.3	260	1	13740	469	1	15107	520	
714974	1	1	10970	3.2	348	1956	1	10970	3.2	348	1	15060	507				
724272	1	1	11250	3.8	425	1947	1	11250	3.8	425							
724856	4	11	10603	4.1	431	1947	8	11151	4.1	457							
						1948	1	7190	4.6	332							
						1949	2	7560	3.8	277							
726056	3	8	13014	3.8	484	1948	1	15210	3.7	568							
						1950	2	11365	3.8	430							
						1953	2	16425	3.7	600	1	15470	557				
						1954	1	14170	3.9	552	1	17240	761				
						1955	1	12880	3.7	471	1	13840	504	1	13843	529	
						1956	1	11320	3.8	425	1	11980	465	1	13091	500	
733862	34	103	12788	3.7	463	1950	6	10965	3.9	425	1	9680	344				
						1951	13	13504	3.8	500	4	11298	469				
						1952	16	12736	3.7	472	8	12598	465				
						1953	19	12539	3.7	455	12	12748	467	12	12202	452	
						1954	14	12829	3.7	465	12	13078	477	10	11990	442	
						1955	13	12448	3.6	444	9	13033	485	10	12510	458	
						1956	10	12914	3.6	464	9	12968	477	8	11922	449	
						1957	8	13240	3.6	479	7	12460	489	6	11594	461	
						1958	4	15013	3.5	528	2	10525	451	1	11096	438	
738767	4	6	14105	3.4	470	1950	2	14150	3.5	491							
						1951	1	16670	3.1	522							
						1952	2	13120	3.5	461							
						1959	1	12480	3.3	407	1	14280	515	1	13472	500	
739007	2	6	12219	3.4	413	1951	1	12500	3.6	449	1	12490	440				
						1953	2	11950	3.4	403	2	12030	424	2	11582	408	
						1954	1	11530	3.6	416	1	12580	427	1	10846	372	
						1955	1	12540	3.5	439	1	13360	450	1	12034	410	
						1956	1	10560	3.5	366	1	11750	415	1	13309	452	
739797	1	1	9230	3.8	352	1954	1	9230	3.8	352							
742676	22	71	12370	3.8	472	1947	20	12370	3.9	480	2	14325	471				
						1948	14	12268	3.8	471	5	13978	535				
						1949	15	13597	3.9	523	5	14232	552				
						1950	10	13691	3.8	524	4	12618	486				
						1951	4	12783	4.2	535	3	13400	520				
						1952	2	13485	4.2	559	2	13690	523				
						1953	2	14325	4.2	605	2	14590	533	1	12840	487	
						1954	1	13010	3.9	504	1	13290	502	1	12797	477	
						1955	2	11110	3.8	424	2	10960	395	2	11811	409	
						1956	1	12090	3.7	450	1	11510	414	1	11870	432	
743481	1	4	11690	3.6	419	1948	1	9510	3.6	344							
						1950	1	12940	3.6	472							
						1951	1	15550	3.6	561							
						1952	1	8760	3.4	300							
746224	3	20	11046	3.4	376	1950	3	11647	3.8	449	3	12733	431				
						1951	4	11418	3.4	395	4	12363	388				
						1952	3	10627	3.4	358	3	12333	400				
						1953	2	10415	3.4	351	2	11910	378				
						1954	2	11180	3.1	343	2	13290	420	2	12132	419	
						1955	1	10940	2.8	311	1	13510	426	1	13843	467	
						1956	2	11545	3.0	346	2	13210	426	2	13167	428	
						1957	2	11715	3.2	376	2	12665	419	2	15075	514	
						1958	1	7970	3.6	290	1	9920	347	1	11282	376	
748385	2	4	15523	3.6	550	1951	1	14830	3.6	538							
						1954	1	15780	3.5	553	1	15990	533				
						1955	1	14550	3.5	515	1	11240	394				
						1957	1	16930	3.5	590	1	13670	474	1	12491	433	
748396	1	2	9265	4.4	408	1950	1	10270	4.4	457							
						1951	1	8260	4.3	358							



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
749B72	1	5	11168	4.1	465	1947	1	11480	3.8	432							
						1948	1	10130	3.6	367							
						1949	1	11630	4.6	531							
						1950	1	12910	5.0	642							
						1951	1	9690	3.7	354							
751641	1	2	10600	3.7	386	1952	1	11790	3.7	436							
						1953	1	9410	3.6	335							
756626	1	1	15820	3.5	553	1950	1	15820	3.5	553	1	8620	346				
761292	1	3	12913	3.4	436	1950	1	12710	3.2	403	1	12270	467				
						1953	1	12350	3.4	424	1	9850	341	1	11183	436	
						1954	1	13680	3.5	482	1	12540	458	1	12579	491	
761977	1	1	17060	4.5	766	1956	1	17060	4.5	766							
763B70	2	6	14334	3.6	513	1951	1	13960	3.8	529							
						1953	2	14755	3.5	521	1	12880	497	1	13287	482	
						1954	1	12800	3.7	480	1	13290	503	1	13658	508	
						1955	1	13690	3.4	465	1	14900	551	1	13712	499	
						1956	1	14820	3.4	510	1	14430	509	1	14007	514	
767189	1	5	13772	3.7	513	1950	1	12380	3.9	485	1	13630	516				
						1951	1	13510	3.7	500	1	14960	521				
						1952	1	16360	3.7	610	1	14770	490				
						1953	1	13970	3.7	518	1	13380	439				
						1954	1	12640	3.6	454							
769006	1	1	14450	3.4	495	1950	1	14450	3.4	495							
769170	2	2	13790	3.5	480	1958	1	13490	3.5	476	1	15440	603	1	13527	526	
						1959	1	14090	3.4	484	1	13920	501	1	12600	468	
769436	1	1	9650	2.9	281	1958	1	9650	2.9	281							
770B39	3	14	12347	3.3	399	1951	2	11765	3.2	374	2	11675	412				
						1952	2	12265	3.3	399	2	11990	419				
						1953	2	12475	3.6	441	2	12105	425	2	12393	437	
						1954	3	13377	3.3	437	3	11813	416				
						1955	1	11650	3.2	375	1	11350	373	1	11914	416	
						1956	2	13980	3.0	423	2	12170	405	2	11619	388	
						1957	1	5580	2.7	151	1	13310	434	1	12568	420	
						1959	1	14260	2.8	404	1	13210	439	1	12045	395	
771491	1	1	10500	3.6	383	1955	1	10500	3.6	383							
779567	7	12	12929	3.5	456	1952	3	11183	3.7	408	1	11710	402				
						1953	2	14145	3.8	528	2	11290	393	2	10486	365	
						1954	3	12957	3.7	483	3	10250	381	3	12001	434	
						1955	2	11760	3.6	420	2	11900	411	2	11636	410	
						1956	1	11560	3.3	384	1	10970	395	1	11859	416	
						1959	1	15000	3.2	478	1	11900	433	1	14017	518	
782352	5	9	9789	3.5	337	1950	1	9890	3.6	356							
						1952	2	12840	3.6	461	2	13560	472				
						1953	2	6295	3.8	235	2	13700	499	2	14367	509	
						1955	2	9650	3.2	302	2	10260	348	1	10965	415	
						1956	1	12640	3.4	432	1	9650	381				
						1958	1	9940	3.5	346	1	7580	299	1	8862	335	
782691	6	20	14127	3.4	476	1950	4	15320	3.2	497							
						1951	3	13530	3.3	454	1	13780	535				
						1952	3	15967	3.6	575	1	11080	381				
						1953	4	14255	3.4	485	3	11673	435	2	12911	485	
						1954	2	15325	3.6	536	1	11830	418	1	11903	421	
						1955	2	16275	3.5	545	1	10390	355	1	12666	441	
						1956	1	12320	4.0	492							
						1958	1	11240	4.2	473							
785376	1	2	13335	3.5	462	1950	1	13310	3.3	435							
						1951	1	13360	3.6	488							
786029	30	91	12829	3.4	427	1949	5	12656	3.4	444	1	16260	569				
						1950	14	12716	3.4	435	6	13255	446				
						1951	15	13523	3.6	478	5	13126	462				
						1952	11	12116	3.4	409	9	12830	419				
						1953	14	14526	3.2	460	13	12435	413	13	12167	424	
						1954	11	14381	2.9	414	10	12865	419				
						1955	10	13313	2.9	377	9	12566	398	9	13681	463	
						1956	6	15843	2.9	452	5	14282	471	5	13117	429	
						1957	3	13577	3.0	402	3	11767	384	3	15075	514	
						1958	1	15060	3.0	459	1	10020	343	1	11282	376	
						1959	1	8890	3.4	300	1	8940	316	1	9919	352	
786366	1	3	15190	3.4	519	1954	1	14700	3.4	506	1	13580	501	1	13843	488	
						1955	1	15960	3.3	523	1	12590	439	1	12666	476	
						1956	1	14910	3.5	527	1	14270	545	1	13254	492	
787141	1	4	11223	3.6	400	1951	1	12040	3.3	399							
						1953	1	13000	3.3	433							
						1954	1	9950	3.7	370							
						1955	1	9900	4.0	396							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
787642	1	1	9380	3.6	338	1950	1	9380	3.6	338						
790337	1	1	11620	3.0	345	1953	1	11620	3.0	345						
790977	1	2	10040	3.3	332	1952	1	10760	3.4	361	1	8370	298			
						1953	1	9320	3.2	302	1	9160	312	1	7913	277
792389	1	3	14060	3.5	485	1948	1	12080	3.6	429						
						1949	1	17310	3.4	590						
						1950	1	12790	3.4	436						
793951	1	4	11305	3.2	363	1951	1	12170	3.4	417						
						1952	1	9900	3.6	354						
						1953	1	12150	2.7	325						
						1954	1	11000	3.2	356	1	11170	422			
798291	8	17	12706	3.7	474	1951	4	13453	3.8	516	1	13690	440			
						1952	6	11265	3.8	426	2	13125	471			
						1953	2	11980	3.9	459	2	11555	426	2	13064	465
						1955	2	12715	3.6	448	2	14020	507	2	12786	442
						1956	1	17000	3.6	604	1	11640	416	1	14857	521
						1957	1	15270	3.5	542	1	13720	532	1	13418	512
						1959	1	14370	3.7	526	1	15280	580	1	13658	494
798846	2	7	12228	4.3	520	1951	1	16650	3.8	629						
						1952	2	12455	4.3	532	1	17450	653			
						1953	1	14980	4.2	636	1	13520	556	1	16208	618
						1954	1	14890	4.3	647	1	18320	626	1	15020	590
						1955	1	15400	4.4	676	1	15960	599	1	15674	609
						1956	1	15950	4.2	865	1	16950	643	1	15827	603
798995	3	4	13920	3.5	477	1948	1	11720	3.6	417						
						1949	1	12950	3.3	422						
						1950	1	18210	3.6	651						
						1951	1	15970	3.3	535						
799545	1	1	13590	3.4	465	1950	1	13590	3.4	465						
802846	1	5	17570	3.4	603	1951	1	15100	3.5	525						
						1953	1	16450	3.3	537						
						1955	1	19970	3.5	699						
						1956	1	18840	3.6	677						
						1958	1	17490	3.3	579						
805118	1	1	11260	3.5	394	1948	1	11260	3.5	394						
807399	1	2	8400	3.6	302	1947	1	7830	3.7	292						
						1948	1	8970	3.5	312						
808860	2	2	13430	4.0	537	1952	1	13940	3.6	503						
						1957	1	12920	4.4	570	1	14300	564	1	12938	511
811414	1	4	13573	3.1	417	1952	1	14400	3.1	444	1	11770	441			
						1954	1	10940	3.0	328	1	12600	446	1	11772	440
						1955	2	14475	3.1	447	2	12490	462	2	12688	465
812359	16	30	12113	3.6	435	1950	3	12393	3.6	447						
						1951	6	12725	3.4	425	1	12540	464			
						1952	6	13115	3.6	472	3	13133	480			
						1953	5	12216	3.8	466	4	11653	444	2	11767	440
						1954	2	12955	3.8	488	2	13155	508	2	13195	503
						1955	2	10895	3.8	413	2	12410	476	2	12585	401
						1956	2	11615	3.9	447	2	13280	501	2	12726	481
						1957	1	9800	4.1	402	1	13820	577	1	11990	449
						1959	3	9843	3.9	387	3	11637	448	3	11184	414
813063	1	3	11240	3.4	390	1953	2	11950	3.5	422	2	14185	497	2	13124	453
						1954	1	9820	3.3	326	1	12410	471	1	13810	499
813564	47	107	11075	3.6	401	1950	1	12410	3.5	435						
						1951	8	12335	3.7	454	2	11575	386			
						1952	27	11478	3.6	415	11	12449	454			
						1953	18	11394	3.6	410	17	11769	431	12	11118	407
						1954	13	11462	3.6	412	11	12431	452	9	11440	421
						1955	16	10494	3.5	370	16	11542	419	14	11523	412
						1956	8	12045	3.5	420	8	12005	441	6	11665	423
						1957	6	11208	3.8	420	6	11042	424	5	11026	420
						1958	6	11023	3.8	410	2	11450	472	6	11278	426
						1959	4	9765	4.2	414	4	10890	442	4	11467	445
814676	1	1	9670	3.5	337	1954	1	9670	3.5	337						
817182	3	5	13757	3.7	500	1950	1	13790	3.4	468						
						1951	1	13830	4.0	547						
						1956	2	13625	3.9	533						
						1957	1	8880	4.3	364						
820601	1	1	13140	3.9	517	1957	1	13140	3.9	517						
822837	16	35	12734	3.8	479	1952	2	14035	3.7	520						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	305-DAY RECORDS NO.	CONTEMP. MILK LBS.	AV. FAT LBS.	YEARLY RECORDS NO.	HERO MILK LBS.	AVERAGE FAT LBS.
HOLSTEIN																
						1953	8	12165	4.0	494	5	11804	437	6	11456	435
						1954	9	12564	3.9	496	6	12232	436	7	11059	410
						1955	3	13747	4.0	561	3	11813	445	3	11420	437
						1956	5	10536	3.9	418	4	12578	466	5	11761	429
						1957	3	12943	3.7	465	2	13630	446	3	12953	455
						1958	3	12883	4.1	535	3	12220	515	2	12361	499
						1959	2	11825	4.0	460	2	11170	423	2	12258	442
823055	55	103	11000	3.4	373	1953	4	13463	3.5	454	3	14557	429	2	14481	446
						1954	10	11844	3.5	419	9	13892	454	3	12408	442
						1955	18	11782	3.4	389	18	13476	416	17	13671	467
						1956	10	12502	3.4	414	10	13267	439	9	12488	412
						1957	14	12192	3.3	402	14	12472	415	13	15075	514
						1958	29	10451	3.4	356	29	10444	362	29	11231	378
						1959	17	8645	3.6	310	17	9528	345	17	10240	366
						1960	1	11430	3.9	443	1	8200	296	1	9821	349
823710	1	5	11380	3.6	415	1950	1	10120	3.2	326	1	9730	418			
						1952	1	10230	3.6	372						
						1953	1	13090	3.6	476	1	12240	462	1	13385	507
						1954	1	10900	3.8	412	1	11840	398	1	9952	375
						1955	1	12560	3.9	491				1	12906	473
826435	3	5	10438	3.5	361	1956	1	12600	3.3	412	1	12030	401	1	11685	411
						1957	2	9375	3.7	344	2	11555	415	2	10345	361
						1958	2	9340	3.5	328	2	11310	444	1	9756	339
826750	3	5	13571	3.8	512	1953	2	14075	3.8	538	1	15190	533	1	13571	487
						1954	1	11840	3.7	440	1	15530	535			
						1955	1	13810	4.0	547	1	13380	495	1	12895	468
						1960	1	13640	3.6	490	1	14510	554			
829607	7	23	11789	3.9	463	1949	1	14870	4.0	599						
						1950	3	12053	4.1	488	1	14050	499			
						1951	3	11713	3.9	451						
						1952	3	10640	3.9	422	1	12810	461			
						1953	2	10505	3.8	392	1	12740	513	1	13745	560
						1954	3	12083	4.0	487	3	12740	442	1	13091	533
						1955	3	12340	3.8	460	3	13570	454	2	13385	466
						1956	2	12625	4.0	498	2	11745	420	2	15037	447
						1957	1	9850	4.3	420	1	10970	387	1	12088	427
						1958	1	9960	4.3	425	1	11790	504			
						1959	1	8580	4.3	366	1	11350	391	1	12426	420
831073	67	159	13361	3.6	478	1951	1	20610	3.2	670	1	13880	478			
						1952	11	14223	3.7	520	9	14153	530			
						1953	41	13837	3.6	493	35	12136	442	21	12293	459
						1954	34	12731	3.6	459	31	12201	449	29	11918	438
						1955	28	13353	3.6	482	25	12104	438	25	12358	448
						1956	15	13922	3.7	510	14	12524	464	15	12157	455
						1957	14	14113	3.7	517	9	12934	476	13	12425	464
						1958	10	15186	3.6	538	6	10448	475	3	11652	455
						1959	4	13208	3.6	468	4	11933	451	4	11930	446
						1960	1	12490	4.7	585	1	11020	422			
837025	2	4	10603	4.2	448	1956	1	13730	4.5	616	1	14600	550	1	11903	459
						1958	2	10140	4.2	427	2	11720	419	2	11020	411
						1959	1	8400	3.8	322	1	10330	374	1	10649	374
837149	3	4	13947	3.4	468	1951	1	13280	3.4	455						
						1955	1	15150	3.4	517						
						1957	1	14030	3.3	462						
						1960	1	13970	3.3	460	1	12260	495			
837450	9	22	11858	3.6	425	1951	1	15260	3.9	594	1	13400	504			
						1952	4	12250	3.5	430	3	11773	416			
						1953	8	11556	3.6	414	8	13255	474	5	12356	450
						1954	4	10078	3.6	361	3	11037	391	4	11554	425
						1955	3	11857	3.5	421	3	11967	441	3	11492	431
						1956	1	14620	3.8	561	1	11310	433	1	13472	511
						1957	1	12920	3.9	505	1	13260	536	1	12633	493
837973	2	6	12277	3.8	451	1950	1	13910	3.1	435	1	14590	598			
						1952	2	12505	3.7	454	1	15330	539			
						1954	2	10780	3.9	420	2	13530	470	2	12884	472
						1955	1	13180	4.0	525	1	11110	413	1	13331	501
839304	1	1	10430	4.1	428	1948	1	10430	4.1	428						
840197	4	10	15008	3.5	514	1949	1	9730	3.6	345						
						1950	2	18380	3.5	638						
						1951	2	17300	3.7	637						
						1952	2	16945	3.3	557						
						1953	2	17360	3.2	562						
						1956	1	15310	3.4	515	1	13950	474	1	12633	456
841347	6	15	10816	3.8	409	1950	2	11050	3.7	401						
						1951	3	11517	3.9	440	1	13890	528			
						1952	3	11057	3.6	420	1	14810	459			
						1953	3	11417	3.8	440	2	13240	493	2	11336	452
						1954	2	10380	3.9	419	2	12755	465	2	10769	397
						1955	2	9975	4.0	404	2	12940	478	2	11592	454
841476	35	90	11527	3.6	417	1950	6	11432	3.7	412	2	13240	522			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
842876	49	122	13384	3.5	468	1951	21	12060	3.6	430	5	12574	460			
						1952	16	11888	3.6	426	6	12223	453			
						1953	12	12099	3.6	430	10	12504	448	9	11694	434
						1954	9	11208	3.6	403	8	12319	465	8	11107	414
						1955	8	11868	3.7	437	8	11845	442	8	12347	454
						1956	8	11731	3.8	452	6	11978	444	8	11833	442
						1957	6	11420	3.8	426	5	11968	460	5	11877	449
						1958	2	10350	4.0	427	2	13940	570	1	13287	516
						1959	2	10995	4.2	459	2	11360	447	2	11734	465
						844122	20	42	12021	3.9	471	1950	1	12420	3.3	410
1951	14	14101	3.6	507	5							13308	468			
1952	21	14054	3.4	481	12							13313	489			
1953	23	13630	3.5	477	19							12492	456	16	12482	458
1954	21	13627	3.4	462	21							12561	454	16	11720	431
1955	13	14442	3.4	496	13							13186	474	12	13228	478
1956	12	14302	3.4	475	11							13426	493	9	13288	484
1957	9	15372	3.4	517	7							14249	541	8	12689	478
1958	6	15798	3.5	546	4							14583	555	4	13268	499
1959	2	16965	3.1	522	2							15900	591	1	15184	556
844853	18	60	13730	3.9	536	1955	6	12337	3.7	432	6	13273	446	6	11618	415
						1956	15	12290	4.0	495	14	12849	468	12	12740	457
						1957	9	12628	4.1	512	8	12068	443	8	12286	461
						1958	9	12812	3.8	492	6	14063	521	4	12347	464
						1959	3	12950	3.6	465	3	13513	487	3	14537	532
846979	53	74	12017	3.7	438	1950	4	14278	4.1	585	2	15830	609			
						1951	6	14928	3.9	579	3	14277	515			
						1952	10	13408	3.8	501	8	14088	507			
						1953	9	14427	3.9	572	9	13263	495	8	12711	491
						1954	9	13401	4.1	558	9	14129	552	9	13878	537
						1955	9	13801	3.9	538	9	14562	546	9	13748	510
						1956	8	12811	3.8	489	8	13915	510	8	13741	511
						1957	2	14770	3.6	523	2	13340	471	2	13952	506
						1958	2	15275	4.0	615	2	13380	499	2	13979	534
						1959	1	17700	3.8	669	1	14550	534	1	12600	468
847505	1	1	7800	3.8	300	1953	3	13050	3.6	465	2	11980	461	2	13326	483
						1954	1	12960	3.6	461	1	14910	547	1	14355	530
						1955	8	11678	3.4	402	8	13136	481	6	12759	453
						1956	15	12756	3.7	472	15	11854	451	14	12350	455
						1957	16	12008	3.7	442	15	13308	506	13	12698	470
						1958	14	12952	3.7	481	8	14085	532	9	13185	489
						1959	13	11198	3.7	410	12	11697	439	13	11802	448
						1960	4	11923	3.7	434	4	12050	465			
847505	1	1	7800	3.8	300	1953	1	7800	3.8	300						
848314	1	1	17190	3.0	523	1954	1	17190	3.0	523						
850298	39	83	12628	3.8	479	1953	1	15540	3.8	595	1	11830	474	1	14759	522
						1954	9	12643	3.9	479	8	12464	458	6	11376	426
						1955	25	13133	3.7	487	21	12012	438	20	12213	443
						1956	19	13125	3.8	505	17	13223	467	15	12177	454
						1957	14	11360	3.7	426	9	11560	422	11	12199	456
						1958	9	13947	3.9	535	9	13390	502	9	13095	501
						1959	6	12768	4.0	512	6	12022	446	6	12579	471
						852063	1	2	10890	3.4	360	1954	1	11930	3.2	376
1955	1	9850	3.5	343	1							10370	366	1	14148	498
852725	1	2	11605	3.7	431	1951	1	10610	3.6	383						
						1952	1	12600	3.8	479						
854053	2	6	12457	3.5	435	1954	1	10700	3.6	385	1	12560	448	1	9036	320
						1955	1	11880	3.5	416	1	12000	460			
						1957	1	9760	3.6	355	1	10570	385	1	11696	412
						1958	1	16240	3.6	581	1	13030	491	1	12764	489
						1959	2	11660	3.3	385	2	12320	445	2	12432	459
854723	51	100	12908	3.6	459	1952	8	11321	3.4	379	2	12455	448			
						1953	22	13843	3.6	502	20	13068	469	15	12261	452
						1954	19	13223	3.6	479	16	12227	442	13	12519	450
						1955	18	13153	3.6	475	17	12304	450	14	11570	427
						1956	11	14646	3.5	510	10	12758	481	10	12121	451
						1957	8	14823	3.6	537	6	13278	498	8	13195	488
						1958	6	13815	3.6	498	3	13173	509	3	12430	477
						1959	7	11951	3.7	437	7	12944	493	7	12647	482
						1960	1	12120	3.4	414	1	12560	503			
						855061	1	7	14144	3.3	458	1947	2	10420	3.5	357
1949	1	13960	3.3	455	1							13940	481			
1950	1	16020	3.1	504	1							14570	488			
1951	1	15490	3.1	478	1							14830	500			
1952	1	16340	3.2	527	1							13470	464			
1953	1	16360	3.2	531	1							13390	460			
856259	1	1	13520	3.1	424	1952	1	13520	3.1	424						
856661	14	39	14496	3.5	513	1952	5	17152	3.6	614	4	15080	607			
						1953	5	15120	3.7	567	4	13473	519	3	16088	605
						1954	6	16852	3.6	608	6	14547	552	6	14846	557
						1955	6	15633	3.5	549	6	14695	543	6	14286	513



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1956	7	15850	3.5	556	7	13689	511	6	15981	597
						1957	5	15580	3.5	545	4	13763	516	5	13638	508
						1958	2	16780	4.1	673	2	16125	572	2	14792	587
						1959	3	13753	3.5	477	2	13415	509	2	12911	488
857346	2	2	12975	3.8	484	1959	2	12975	3.8	484	1	13850	474	1	14039	485
857489	1	3	10467	3.7	389	1955	1	10680	3.7	399	1	12760	507			
						1956	1	10180	3.8	389	1	14590	497			
						1957	1	10540	3.6	380	1	13400	443	1	13298	460
859214	1	1	8960	3.2	290	1954	1	8960	3.2	290	1	12020	415	1	12088	437
859238	17	36	12409	3.6	450	1951	1	11480	4.1	471						
						1952	8	11216	3.8	423	1	13910	469			
						1953	9	11648	3.6	423	6	12943	467	7	11336	425
						1954	6	12387	3.6	437	5	12546	484	6	11360	426
						1955	4	11060	3.6	399	3	12747	479	4	11317	420
						1956	2	11600	3.5	413	2	12995	485	2	10116	377
						1957	1	14530	3.7	543	1	15560	559	1	13385	484
						1958	3	13677	3.7	503	3	12357	450	2	11636	428
						1959	2	17470	3.4	592	2	15165	580	2	14819	566
863100	17	36	11551	3.7	420	1953	6	12203	3.8	453	5	11782	419	4	12018	439
						1954	7	11049	3.9	426	6	11963	452	3	10915	391
						1955	8	12173	3.6	435	8	12903	455	8	11520	427
						1956	6	10475	3.7	386	6	11300	410	5	11558	429
						1957	6	9770	3.8	374	5	11446	435	5	11739	431
						1958	1	12300	3.6	438	1	16140	495	1	13102	482
						1959	2	13110	3.2	408	2	15060	490	2	12671	438
863710	1	1	16140	3.4	557	1959	1	16140	3.4	557	1	12210	431	1	14017	510
863763	1	1	9230	4.4	403	1953	1	9230	4.4	403						
864818	32	73	12353	3.7	457	1953	4	11465	3.8	430	4	10925	402	4	12652	452
						1954	10	11489	3.8	437	9	12093	443	9	12328	454
						1955	20	12490	3.7	466	19	11904	447	15	12056	439
						1956	18	11677	3.7	438	16	13164	480	14	11578	435
						1957	11	11814	3.6	432	10	12343	453	5	12814	486
						1958	4	13185	3.8	494	2	12205	492	1	13625	496
						1959	5	12316	3.4	416	5	12858	461	5	12829	458
						1960	1	12980	3.4	436	1	13840	461	1	14726	523
865322	1	2	11980	4.0	476	1952	1	12300	4.1	506	1	8890	325			
						1954	1	11660	3.8	445	1	11060	392	1	10671	383
865323	66	89	12655	3.8	477	1956	2	12145	3.6	423	2	14070	498	2	13882	490
						1957	21	12981	3.8	493	19	12839	488	18	13243	495
						1958	28	14056	3.8	533	23	13216	513	16	12904	489
						1959	27	11798	3.8	448	27	12077	442	24	12163	450
						1960	11	12154	3.8	461	10	12873	456	2	13331	497
865325	53	100	12994	3.6	469	1952	4	14383	3.5	495	4	12253	451			
						1953	12	14954	3.5	523	11	12755	457	7	11973	427
						1954	26	13761	3.6	496	23	12745	461	20	12423	454
						1955	19	11939	3.7	447	16	12421	457	15	12513	463
						1956	16	12393	3.7	456	15	13823	503	13	11987	447
						1957	11	12084	3.8	458	10	12272	469	11	12502	467
						1958	6	12850	3.4	434	5	13286	482	5	12191	446
						1959	6	13007	3.6	459	6	13983	515	6	13285	493
866063	5	14	11672	3.7	433	1953	4	10883	3.7	403	4	11785	428	3	11111	404
						1954	4	12043	3.8	455	3	12117	443	4	10647	391
						1955	2	10295	3.7	378	2	11510	431	2	10072	375
						1956	2	13595	3.7	504	2	13065	514	2	12312	461
						1958	1	15900	3.4	547	1	15650	568	1	13560	535
						1959	1	10890	3.7	407	1	12970	528	1	11696	440
866178	2	6	11952	3.4	401	1955	2	14310	3.4	475	2	13540	475	2	12693	442
						1956	1	9010	3.4	302	1	10930	396	1	12088	427
						1957	3	11360	3.4	384	3	12003	420	3	11478	406
866277	1	2	11560	3.5	397	1955	1	12300	3.4	417	1	10740	379			
						1957	1	10820	3.5	376	1	11140	412	1	11020	384
867954	1	1	15430	3.4	529	1953	1	15430	3.4	529	1	15850	638	1	16208	618
869946	4	7	13950	3.8	533	1955	3	13663	3.6	495	3	16153	537	3	14784	496
						1956	1	14210	3.6	516	1	15250	478	1	15805	538
						1957	1	10680	4.1	440	1	15190	527	1	14998	514
						1958	1	15080	4.0	597	1	11790	504			
						1959	1	15510	4.1	642	1	13610	509	1	14464	537
870240	1	1	14170	4.0	566	1954	1	14170	4.0	566				1	13004	458
870736	68	138	11648	3.8	438	1953	5	11582	3.5	400	5	13248	453	4	13208	451
						1954	21	10596	3.8	401	18	11559	426	16	11517	434
						1955	37	12050	3.8	448	33	12708	462	25	12406	455
						1956	33	11419	3.8	436	29	11809	444	23	11963	454
						1957	23	11299	3.9	441	20	11393	427	17	11526	438
						1958	12	12638	3.9	495	9	12604	515	5	11663	439
						1959	5	14456	4.0	571	4	15140	536	3	15602	576

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1960	2	14070	3.8	529	2	12935	474			
872422	1	2	14085	3.4	475	1953	1	15120	3.4	512	1	13150	467	1	14377	501
						1954	1	13050	3.3	437	1	13190	498	1	13734	491
877660	4	11	13460	3.5	464	1949	1	14700	3.4	503	1	14250	486			
						1950	2	15660	3.7	568	1	10920	396			
						1951	2	11610	3.4	396	1	13470	449			
						1952	3	13840	3.1	436	1	12040	371			
						1953	1	12410	3.3	405				1	12164	419
						1954	1	13610	3.8	516	1	10200	359	1	10573	347
						1957	1	12300	3.4	417						
877830	22	66	12824	3.6	464	1948	2	12170	3.8	457						
						1949	11	13836	3.6	497						
						1950	15	13203	3.6	475	1	11730	390			
						1951	10	13318	3.6	478						
						1952	12	12787	3.6	458	1	13620	489			
						1953	10	12883	3.7	473	1	13950	489	1	13102	440
						1955	3	15203	3.7	561	1	16270	555	1	14094	500
						1956	1	14390	3.7	534						
						1957	1	9850	3.4	339	1	9270	301	1	10638	359
						1960	1	12930	3.3	429	1	12800	479			
878259	1	1	14200	2.9	413	1956	1	14200	2.9	413	1	12680	450	1	11401	390
878665	2	2	10895	3.6	395	1953	1	10110	3.7	376						
						1956	1	11680	3.5	414	1	9710	370	1	9134	330
880210	59	122	12433	3.8	473	1954	10	13205	4.0	517	9	11803	428	6	12036	441
						1955	24	12000	3.8	457	23	12453	447	19	12375	441
						1956	28	12178	3.8	469	28	12525	466	23	12567	461
						1957	25	12209	3.8	459	22	13239	487	22	12453	461
						1958	18	12378	3.8	473	15	13131	507	12	12602	476
						1959	13	13147	3.9	516	11	13219	503	11	13105	500
						1960	4	10425	4.0	409	3	11510	407			
882931	1	1	16860	3.8	634	1959	1	16860	3.8	634	1	16810	617	1	16993	633
882935	10	24	14082	3.7	525	1951	3	13690	3.7	508	1	15210	598			
						1952	8	14070	3.6	516	4	14400	533			
						1954	4	14458	4.2	614	4	13338	534	4	14170	570
						1955	3	13673	3.6	487	3	14440	552	3	13974	536
						1956	2	13255	3.7	489	2	14130	530	2	13516	520
						1957	2	13260	3.8	495	2	10650	437	2	13189	510
						1958	1	14860	3.8	568						
						1959	1	11630	3.5	402						
889549	1	1	12240	3.6	444	1953	1	12240	3.6	444						
890181	36	45	12789	4.0	509	1957	3	12120	4.4	528	2	14260	527	1	12208	486
						1958	16	12899	4.1	529	12	13844	523	9	13074	502
						1959	23	12770	3.9	502	22	13388	494	21	13226	492
						1960	3	13623	3.7	507	3	14400	521	2	14258	539
890463	48	93	12578	3.6	449	1953	6	14410	3.4	477	6	11630	387	3	15053	498
						1954	12	12416	3.5	433	11	12876	473	11	12061	437
						1955	24	13622	3.5	488	22	12507	452	18	12330	440
						1956	16	14087	3.6	509	15	12161	450	14	12523	444
						1957	14	13336	3.6	484	11	11284	439	11	12206	443
						1958	10	13548	3.4	471	8	12359	475	7	12985	481
						1959	10	13121	3.7	492	10	12477	446	10	12697	470
						1960	1	12020	3.6	435	1	9850	346	1	12993	493
893840	1	1	10980	4.4	481	1953	1	10980	4.4	481	1	15610	624	1	16208	618
893866	1	1	16470	3.9	644	1954	1	16470	3.9	644						
894515	1	1	11280	3.3	371	1948	1	11280	3.3	371						
894806	1	2	12460	3.4	419	1957	1	12420	3.4	424	1	10960	408			
						1958	1	12500	3.3	414	1	11790	504			
895911	3	6	13605	3.5	475	1955	1	18860	3.4	641	1	13570	487	1	13211	464
						1956	2	11525	3.4	397	2	12175	455	2	12088	427
						1957	1	11920	3.4	403	1	11710	433	1	10301	373
						1959	1	16010	3.6	579	1	11760	431	1	12088	446
						1960	1	15030	3.7	553	1	14590	534			
895914	1	1	12680	3.5	440	1955	1	12680	3.5	440	1	14950	547	1	11380	444
897452	1	1	14170	4.4	623	1959	1	14170	4.4	623	1	14990	538			
898193	1	1	15720	3.2	501	1958	1	15720	3.2	501						
900108	2	4	14024	3.7	514	1953	1	11320	3.9	445						
						1954	1	11220	3.7	418						
						1955	2	13990	3.7	511	1	11000	356	1	8742	448
900274	28	38	12997	3.8	496	1956	1	16330	4.1	667	1	13660	531	1	13908	509
						1957	4	12485	4.0	479	4	12783	480	3	12382	472

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						HOLSTEIN											
						1958	11	12791	3.9	494	9	12582	494	8	11970	445	
						1959	21	12856	3.8	489	20	13449	491	20	13372	489	
						1960	1	14030	3.7	514	1	17770	607	1	12862	458	
902800	1	1	14070	3.2	452	1954	1	14070	3.2	452							
902915	1	1	11900	3.4	401	1957	1	11900	3.4	401	1	13770	522	1	11925	456	
903887	1	1	9850	3.3	322	1947	1	9850	3.3	322							
904220	80	132	12893	3.7	479	1954	1	10210	3.8	585	1	13760	499	1	13058	453	
						1955	14	12540	3.7	467	14	12669	469	11	12137	433	
						1956	38	12604	3.7	463	34	12721	464	32	12182	448	
						1957	26	12972	3.7	483	26	12608	466	24	12123	449	
						1958	26	13160	3.7	483	19	13422	497	16	12487	467	
						1959	19	14291	3.8	544	18	13399	501	19	13468	501	
						1960	8	12690	3.7	472	8	13093	464				
904444	1	1	11890	3.4	403	1956	1	11890	3.4	403	1	11530	420	1	11870	432	
905788	1	2	10385	3.3	340	1956	1	11060	3.4	373	1	11530	422	1	12600	455	
						1957	1	9710	3.1	306	1	14050	516	1	11946	441	
905995	1	3	13170	3.6	482	1953	1	12950	3.4	442	1	9100	348	1	11009	420	
						1954	1	12560	3.7	465	1	9630	351	1	9810	367	
						1955	1	14000	3.8	539	1	10550	416	1	10562	389	
906000	42	86	11967	3.9	461	1953	3	12233	3.7	447	2	12370	482	1	13472	474	
						1954	15	12457	3.8	471	14	13336	485	12	12673	463	
						1955	14	12140	3.8	465	14	13286	487	13	12824	471	
						1956	21	12521	3.8	473	21	13084	487	21	12884	476	
						1957	9	11200	3.8	435	9	13391	487	9	13401	492	
						1958	11	11894	3.8	451	9	12132	470	7	11895	453	
						1959	11	11169	4.0	449	11	12329	457	10	12020	448	
						1960	2	11345	4.0	470	2	9620	393	1	10933	474	
907873	4	11	12185	3.5	419	1954	1	14560	3.2	467	1	13080	471				
						1955	4	11863	3.5	414	4	13373	474	4	12328	426	
						1956	2	13430	3.7	493	2	12940	460	2	12895	461	
						1957	2	14620	3.6	521	2	11430	383	2	12066	422	
						1958	1	12750	3.6	465	1	15260	564	1	13974	497	
						1959	1	13610	3.4	458	1	15820	559	1	14017	510	
908810	1	1	11120	3.9	438	1959	1	11120	3.9	438	1	9960	373	1	11630	416	
912891	1	1	12140	3.6	437	1954	1	12140	3.6	437							
914050	1	2	13555	3.4	464	1952	1	15440	3.7	565	1	11930	451				
						1953	1	11670	3.1	363	1	12040	426	1	13385	507	
914764	10	21	12746	3.7	476	1948	1	12390	3.5	433							
						1949	5	12220	3.7	447							
						1950	5	13774	3.7	512							
						1951	3	10753	3.6	394							
						1952	2	12035	3.7	450	1	14230	501				
						1953	2	12150	3.8	457	1	15960	536	1	11020	411	
						1955	1	10010	4.2	418							
						1956	2	14460	3.8	542							
915999	9	24	12276	3.9	479	1953	4	10545	4.1	424	3	13970	520	3	12477	453	
						1954	5	11560	3.9	445	4	11903	409	2	11674	421	
						1955	3	13053	3.6	478	3	11847	392	2	12284	443	
						1956	5	12514	3.9	475	3	13370	473	4	11121	403	
						1957	3	12683	3.5	454	3	12297	431	3	12059	433	
						1958	2	12450	4.1	516	2	8925	336	2	13037	466	
						1959	2	14625	3.9	575	2	13025	467	2	13996	516	
916471	2	4	11898	3.8	446	1956	2	12120	3.8	451	2	11575	401	1	11227	407	
						1957	2	11675	3.8	440	1	10580	381	1	12426	446	
919125	3	8	14005	3.9	545	1952	2	16265	4.0	642	2	14205	513				
						1953	3	14457	4.1	593	3	14360	523	3	14661	538	
						1954	3	12733	3.7	473	3	13847	499	3	14573	546	
919608	37	70	14074	3.7	517	1952	2	14470	3.5	500							
						1953	5	13208	3.7	479	3	11373	423	4	11461	415	
						1954	7	12603	3.9	482	6	12233	450	6	12471	446	
						1955	15	13865	3.8	518	15	13193	498	14	13067	471	
						1956	17	14515	3.7	534	16	13619	488	14	13882	497	
						1957	11	15899	3.6	572	9	13389	503	11	14052	512	
						1958	5	16608	3.6	590	5	12968	503	3	12924	480	
						1959	7	15247	3.8	579	7	13597	502	7	13519	498	
						1960	1	11990	3.6	434	1	10160	356				
923749	3	4	10605	3.7	396	1949	1	11580	3.8	435							
						1953	1	8020	3.8	308							
						1955	1	13200	3.7	494	1	11510	411				
						1957	1	11230	3.5	396	1	9580	328	1	10529	368	
923750	2	6	11647	4.0	463	1952	1	9860	3.9	380							
						1953	1	10650	3.2	339							
						1954	1	19380	4.1	790	1	11940	453				
						1956	1	12200	4.3	519	1	12610	427	1	14748	580	
						1957	1	12170	4.9	594	1	14020	559	1	13331	556	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
924257	1	3	14263	3.6	519	1958	1	8400	4.2	356	1	12770	490		1	13854	558
						1956	1	15020	3.7	557	1	17160	623				
						1957	1	13360	3.6	482	1	14410	521	1	16481	580	
						1958	1	14410	3.6	517	1	11790	504				
924264	10	24	12768	3.5	444	1954	3	12293	3.6	441	3	13957	509	3	13178	487	
						1955	7	15649	3.5	540	6	13893	506	6	13167	474	
						1956	4	13168	3.6	478	4	13185	478	4	14039	512	
						1957	3	13313	3.6	468	3	11663	415	3	12143	433	
						1958	4	11515	3.4	388	4	12713	516	2	11401	402	
						1959	3	12837	3.2	410	3	11833	425	2	12099	417	
924893	1	1	10250	3.2	333	1959	1	10250	3.2	333	1	14180	470		1	13233	458
925396	1	4	11818	3.8	443	1953	1	13510	3.7	504							
						1954	1	10950	4.0	435							
						1955	1	11190	3.7	411							
						1956	1	11620	3.6	422	1	13610	538	1	11478	415	
926363	55	112	11328	3.8	425	1953	4	11378	3.7	399	4	12805	417	4	13189	430	
						1954	19	12117	3.9	466	17	12484	450	16	12288	448	
						1955	30	11078	3.8	415	29	12262	457	21	12053	447	
						1956	25	11072	3.7	406	23	12634	471	19	11987	443	
						1957	18	11044	3.8	421	17	12305	448	17	11900	438	
						1958	7	11316	3.8	430	6	10423	521	1	10758	392	
						1959	8	12936	3.7	474	8	12904	474	8	12667	467	
						1960	1	11380	3.6	405							
929216	1	1	9130	3.7	338	1958	1	9130	3.7	338							
930692	2	2	17210	4.0	694	1958	1	13310	3.5	461	1	11940	429	1	12263	428	
						1959	1	21110	4.4	926				1	15053	573	
933199	1	4	10898	3.5	377	1952	1	12180	3.6	434	1	11540	399				
						1957	1	9690	3.4	330	1	11220	369	1	8982	342	
						1958	1	11660	3.5	411	1	10080	349	1	8393	295	
						1959	1	10060	3.3	334	1	9260	308	1	8807	326	
934021	1	1	11830	3.8	452	1958	1	11830	3.8	452				1	11478	393	
936716	1	2	12825	3.5	445	1954	1	12780	3.7	470	1	16160	626				
						1955	1	12870	3.3	419	1	17220	628	1	15195	574	
941567	46	120	11817	3.7	442	1952	3	13100	3.6	466	3	11100	392				
						1953	9	11979	3.9	472	9	14351	521	8	13317	489	
						1954	17	11969	3.9	459	17	13366	496	14	12262	464	
						1955	28	12223	3.8	468	26	13336	496	25	12785	475	
						1956	20	11624	3.9	449	20	13285	497	19	12927	475	
						1957	20	12040	3.8	461	18	13609	517	17	13291	503	
						1958	12	12583	3.7	468	12	13361	530	7	13251	510	
						1959	10	12811	3.6	454	8	13345	485	8	12707	466	
						1960	1	14150	3.5	492	1	11470	413				
941809	1	5	14840	3.5	525	1950	1	15400	3.8	588	1	11480	399				
						1951	1	14610	3.7	536	1	12110	376				
						1952	1	12890	3.2	415	1	12810	378				
						1955	1	15250	3.3	496	1	8640	332	1	11663	433	
						1956	1	16050	3.7	589	1	13750	449	1	13015	470	
942567	1	1	10900	3.6	397	1954	1	10900	3.6	397							
943293	145	274	13839	3.7	515	1952	5	13296	3.7	485	1	16330	527				
						1953	32	14034	3.7	519	27	13952	522	21	13338	497	
						1954	32	13645	3.8	514	28	13660	524	24	13002	488	
						1955	32	13823	3.7	517	28	14224	530	28	12892	477	
						1956	37	14500	3.7	540	35	14455	548	34	13674	516	
						1957	62	13829	3.8	524	60	14192	546	59	13900	534	
						1958	47	14002	3.7	517	33	13631	518	32	12885	485	
						1959	26	13421	3.6	481	24	13165	477	23	13286	490	
						1960	1	14610	3.5	517	1	13260	505				
943749	6	6	13427	4.0	534	1959	5	13360	4.0	531	5	12522	475	5	12947	491	
						1960	1	13760	4.0	548	1	9540	351	1	11085	484	
946132	1	2	12345	4.3	532	1951	1	11780	4.1	484							
						1952	1	12910	4.5	580							
946165	10	35	13940	3.7	506	1950	2	14385	3.8	542							
						1951	6	13298	3.8	501							
						1952	6	14342	3.6	508	3	14410	514				
						1953	4	16165	3.4	546				3	14857	514	
						1954	5	16302	3.5	508	5	17776	598	5	16197	558	
						1955	5	17220	3.6	628	5	18548	648	5	17429	601	
						1956	4	13885	3.7	503	4	16190	562	1	11401	390	
						1957	2	18805	3.7	688	2	17400	624	2	17571	621	
						1959	1	17860	3.5	625	1	19450	745				
946403	1	2	12080	3.7	440	1957	1	12230	3.6	441	1	13610	554	1	9930	376	
						1958	1	11930	3.7	438	1	13020	483	1	11772	437	
948154	37	74	12022	3.4	401	1950	1	12170	3.2	389							
						1951	1	12580	3.1	393	1	12500	396				
						1952	3	11693	3.3	387	2	12310	393				
						1953	13	11272	3.5	391	13	12621	397	13	12077	417	
						1954	16	13320	3.3	436	16	13641	429				
						1955	9	12981	3.2	413	9	12300	384	9	13417	453	
						1956	12	13786	3.0	417	12	13565	436	12	13167	478	
						1957	9	13966	3.1	429	8	11105	366	8	15075	514	



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1958	7	11170	3.4	383	7	10083	345	7	11282	376
						1959	3	8943	3.6	313	3	9467	331	3	9919	352
949041	2	5	12339	3.5	428	1950	1	14440	3.5	512						
						1951	1	12650	3.5	445						
						1955	1	14200	3.4	487	1	16190	611	1	14148	498
						1956	2	9600	3.4	323	2	10870	403	2	13789	484
949156	1	1	12060	3.9	468	1959	1	12060	3.9	468	1	13690	488	1	13211	451
949159	10	12	13287	3.7	483	1957	1	6240	3.7	232	1	13100	483	1	15151	517
						1958	3	13847	3.8	520	2	15960	615	2	13729	524
						1959	7	14323	3.6	511	7	13753	515	7	13876	523
						1960	1	10120	4.0	401						
949766	20	71	13540	3.5	470	1950	1	17980	3.9	697	1	14400	604			
						1951	6	15730	3.6	557	3	14250	506			
						1952	7	14984	3.6	530	3	12810	456			
						1953	17	14024	3.6	500	15	13665	468	15	13366	480
						1954	16	13151	3.5	458	16	13647	474	16	13176	471
						1955	12	13415	3.3	441	12	13891	485	12	13136	456
						1956	7	14041	3.3	462	7	13636	500	7	13382	480
						1957	3	13530	3.6	482	3	16143	576	3	14552	531
						1958	2	11950	3.7	442	2	13355	533	2	14955	542
950444	1	1	13150	3.6	471	1960	1	13150	3.6	471	1	16010	504	1	12110	434
950648	1	3	12987	3.6	463	1956	1	14596	3.5	516				1	8949	310
						1957	1	10320	3.6	367	1	12030	417	1	11652	408
						1958	1	14050	3.6	506				1	11532	409
950725	1	2	10245	3.4	343	1956	1	9480	3.4	318	1	11790	431	1	12600	455
						1957	1	11010	3.3	368	1	13790	504	1	11946	441
952029	15	17	13856	3.7	506	1958	4	14725	3.8	539	2	14035	511	2	14252	519
						1959	10	14256	3.6	519	10	12999	486	10	13155	495
						1960	3	11937	3.7	440	3	12597	481	3	11085	484
954461	15	24	12645	3.8	477	1955	2	12640	3.7	463	2	13785	535	2	13625	510
						1956	6	13158	3.9	512	5	12714	456	5	12742	443
						1957	7	12680	3.8	486	2	13620	491	3	12931	471
						1958	2	14655	4.2	609	2	11795	509			
						1959	7	12776	3.8	479	7	12990	480	6	13013	479
954675	1	1	14750	3.6	527	1959	1	14750	3.6	527	1	13860	470	1	14050	493
954932	28	75	12505	3.7	467	1949	3	12863	3.7	453						
						1950	9	13527	3.6	486	1	16690	503			
						1951	9	11578	3.8	440	2	14025	517			
						1952	17	13275	3.9	512	6	14745	544			
						1953	13	13592	3.8	520	8	13915	532	4	13576	500
						1954	6	14378	3.8	543	5	12752	468	5	13374	499
						1955	9	12760	3.8	492	7	13059	483	7	12991	485
						1956	5	13872	3.6	514	4	14165	551	5	13302	500
						1957	2	14230	3.7	531	2	12780	493	2	12938	506
						1958	1	20080	4.1	814	1	17220	616	1	16405	603
						1959	1	18420	4.1	763	1	15330	549	1	14595	536
955493	102	195	12320	3.8	462	1952	5	13428	3.7	501	4	12140	420			
						1953	17	12065	3.7	445	16	12417	454	12	12635	455
						1954	23	12059	3.7	448	23	13136	466	18	12732	459
						1955	27	12612	3.7	468	25	13038	476	23	13002	474
						1956	40	12679	3.8	479	38	13012	479	34	13094	481
						1957	39	12355	3.8	465	34	13620	496	31	13241	488
						1958	27	11976	3.8	459	20	13010	508	16	12481	460
						1959	15	13943	3.8	529	13	13382	488	13	12756	460
						1960	2	11055	3.6	398	1	11160	401			
956714	1	1	17540	4.0	701	1960	1	17540	4.0	701	1	14510	546			
959466	1	1	16880	3.4	582	1958	1	16880	3.4	582	1	16500	591	1	14791	543
962404	13	25	13100	3.8	496	1952	2	12240	3.9	476	1	13010	476			
						1953	7	13541	3.8	512	7	13627	476	6	13409	490
						1954	4	13430	3.6	479	4	14760	503	3	13705	494
						1955	2	14345	3.8	532	2	16450	573	1	15576	552
						1956	6	13017	3.8	488	6	13158	489	5	13130	480
						1957	2	11280	4.1	450	2	13995	504	1	13952	506
						1958	2	14495	3.8	541	2	12300	508	1	12982	493
963965	16	29	11246	3.6	396	1953	9	12601	3.5	438	9	14647	488	9	13047	461
						1954	8	11619	3.6	412	8	12593	420			
						1955	7	10391	3.5	364	7	11536	384	7	11336	389
						1956	4	9670	3.4	333	4	10538	380	4	9134	316
						1957	1	8530	3.3	284	1	11050	395	1	9897	349
966362	26	49	12859	3.5	452	1954	1	17330	3.1	542	1	12070	410			
						1955	11	13805	3.4	478	11	12975	474	9	12064	442
						1956	13	12805	3.6	458	12	12883	476	10	11370	426
						1957	10	11232	3.6	406	8	13066	499	8	12662	473
						1958	6	12773	3.5	445	5	12940	529	4	13015	468
						1959	6	14683	3.6	526	6	12803	487	6	13300	496

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
						1960	2	15055	3.6	542		2	15580	630		
966473	1	1	8320	3.4	285	1955	1	8320	3.4	285						
967873	62	77	14321	3.6	522	1956	3	16310	3.5	567	3	14080	505	3	13937	461
						1957	14	14081	3.6	514	13	13288	489	13	12682	472
						1958	12	14815	3.6	534	9	13251	493	6	13454	498
						1959	37	14281	3.6	520	36	12946	482	36	13274	490
						1960	11	13270	3.7	486	10	12153	436	3	13367	489
968544	42	69	12511	3.9	485	1955	11	13232	3.9	512	11	13528	485	10	13356	480
						1956	18	13103	3.9	511	17	13342	486	10	13463	498
						1957	16	11686	4.0	461	16	12873	467	14	12674	464
						1958	11	13012	3.9	513	10	13148	504	10	12786	482
						1959	12	12755	3.9	493	12	13225	482	11	12894	491
						1960	1	9770	3.6	356	1	13060	456			
969667	44	76	13315	3.8	505	1953	1	14040	4.2	592	1	14170	530	1	11183	436
						1954	3	12637	4.0	508	3	13437	483	3	13127	479
						1955	9	13727	3.9	533	8	14315	524	8	13464	482
						1956	18	13965	3.7	521	15	14000	517	14	13491	495
						1957	18	12691	3.9	488	16	12627	474	16	13107	486
						1958	12	14527	3.8	553	9	13020	536	5	14589	548
						1959	12	13771	3.7	515	12	13468	502	10	13291	493
						1960	3	11457	3.9	447	2	11785	435			
						969669	43	82	13158	3.8	498	1953	1	12050	3.8	462
1954	6	15742	3.6	594	6							14480	531	6	13881	522
1955	9	14247	3.8	541	9							14919	554	7	14083	525
1956	14	12856	3.9	501	12							13198	505	11	13516	505
1957	15	12981	4.0	508	13							13446	501	14	13512	507
1958	15	12242	3.8	459	12							12608	521	9	12659	480
1959	20	12971	3.7	475	18							13234	491	16	13536	492
1960	2	12570	3.7	473	1							16340	565	1	16677	588
975137	75	134	13060	3.6	470							1955	13	14532	3.6	521
						1956	23	12478	3.7	454	23	12642	460	21	12396	447
						1957	41	12701	3.6	461	40	12732	468	32	12713	466
						1958	29	14060	3.6	506	20	13727	523	15	13273	495
						1959	20	13890	3.6	502	19	13836	507	19	13955	519
						1960	8	12955	3.5	456	8	11820	447	1	12993	493
975683	38	84	13063	3.7	486	1952	4	11268	3.5	389	3	11777	411			
						1953	7	12960	3.6	466	6	10747	388	4	12312	450
						1954	7	10391	3.8	394	7	11681	431	7	11127	408
						1955	14	12965	3.6	471	13	12552	455	14	12382	446
						1956	15	13135	3.7	485	13	12875	477	14	13096	475
						1957	12	12780	3.7	469	10	12342	461	12	13078	489
						1958	8	11979	3.6	434	7	11277	409	5	10822	389
						1959	14	11876	3.7	435	14	12119	451	13	11853	438
						1960	3	13973	3.8	527	3	13387	481	1	12611	467
						975892	1	1	13720	3.5	474	1958	1	13720	3.5	474
976710	10	11	14427	3.5	509	1957	1	10020	3.5	349	1	12600	460	1	10301	373
						1958	1	18550	3.3	614	1	16260	616	1	15206	597
						1959	7	15113	3.6	539	7	14806	569	7	15395	580
						1960	2	13045	3.5	451	2	12065	449			
976801	23	40	12246	3.8	461	1954	6	13017	3.7	482	6	13365	481	5	12783	464
						1955	11	13303	3.9	506	9	13528	483	9	13121	458
						1956	8	11956	3.8	448	6	13167	468	6	13331	470
						1957	6	12467	3.6	452	5	13582	512	6	11874	446
						1958	3	12030	4.0	479	3	12927	449	3	12481	449
						1959	5	12300	3.8	465	4	12233	454	4	12530	451
						1960	1	13360	3.8	510	1	11700	425			
977110	1	1	14020	4.1	573	1958	1	14020	4.1	573						
978750	63	124	12833	3.7	473	1953	21	12810	3.7	471	17	12940	464	13	12995	471
						1954	17	11934	3.7	438	14	12420	466	13	12435	459
						1955	23	12927	3.7	477	18	12368	463	15	12568	458
						1956	25	12898	3.7	479	23	13060	486	21	12420	460
						1957	18	12334	3.6	451	15	12475	466	16	12549	469
						1958	10	13045	3.7	473	8	13463	508	7	12876	479
						1959	9	13461	3.8	511	8	13526	496	7	13390	507
						1960	1	18280	3.2	583	1	12740	469			
						978998	18	26	13077	3.9	501	1952	1	11790	4.7	550
1953	1	14120	3.7	524	1							14040	539	1	11303	437
1954	7	15209	3.8	571	6							14977	578	6	12522	486
1955	4	13113	3.8	493	4							14783	515	4	12892	481
1956	3	15060	4.0	601	3							13537	523	3	13603	519
1957	3	11517	3.9	443	3							13713	517	3	13621	531
1958	3	12343	3.5	432	3							13810	514	3	12670	476
1959	4	11965	3.9	462	4							12010	444	4	12565	461
981308	19	20	11929	3.8	451							1957	1	13420	3.8	510
						1958	2	11370	4.0	455	1	12020	448	1	12273	462
						1959	15	12032	3.7	445	14	12805	485	13	13210	492
						1960	2	10980	4.0	448						
984799	67	82	13086	3.8	492	1957	2	10790	3.9	420	2	13100	504	2	13244	498
						1958	28	13405	3.8	507	22	13742	512	21	13451	502
						1959	47	13320	3.7	498	45	12856	482	43	13038	484

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.		
						1960	HOLSTEIN											
							5	13006	3.7	479		5	13234	483		1	12906	476
989933	1	3	12430	3.4	422	1950	1	14220	3.4	480								
						1951	1	12740	3.5	445								
						1952	1	10330	3.5	342								
990559	73	155	13694	3.7	504	1953	22	13805	3.7	514	19	14121	541		17	13101	499	
						1954	22	14609	3.7	539	18	14277	534		18	13613	515	
						1955	25	14522	3.6	522	23	13947	521		19	13708	507	
						1956	22	14495	3.7	536	20	14722	562		20	13773	519	
						1957	27	13635	3.7	514	24	13443	519		23	13191	505	
						1958	16	12978	3.6	489	8	10424	441		7	12920	491	
						1959	20	13014	3.6	470	20	13213	493		20	13347	495	
						1960	1	17650	4.1	730	1	13950	506					
991741	3	3	14410	3.5	508	1957	2	13545	3.4	464	1	11230	364		1	11946	441	
						1958	1	16140	3.7	597	1	11790	504					
992370	1	1	12150	4.0	483	1957	1	12150	4.0	483	1	15830	528					
993764	34	49	12567	3.6	450	1956	7	11119	3.6	399	7	13113	477		5	12402	451	
						1957	8	11678	3.5	404	8	12955	464		8	12174	441	
						1958	13	12897	3.6	467	10	13323	493		10	12862	479	
						1959	18	13456	3.6	485	18	12932	488		17	13342	502	
						1960	3	12457	3.5	433	3	12843	499					
996696	16	34	12809	3.5	451	1951	9	11936	3.5	418	9	13174	425					
						1952	8	13541	3.6	481	7	14336	495					
						1953	6	14326	3.4	481	6	13832	489		6	12577	449	
						1954	3	15243	3.4	530	5	13950	467					
						1955	3	12100	3.2	385	3	12207	420		3	12335	429	
						1956	2	14250	3.4	478	2	14290	483		2	12917	432	
						1957	1	16740	3.5	579	1	14680	509		1	14214	485	
						1958	1	17100	3.4	586	1	15870	568					
						1959	1	15640	3.7	577	1	17630	667		1	14639	496	
997481	42	72	12917	3.6	466	1952	2	10440	3.5	373	2	10390	370					
						1953	4	12828	3.6	455	4	12580	458		4	12778	470	
						1954	4	14268	3.5	502	4	14280	448		4	13151	466	
						1955	10	14407	3.6	514	9	14613	520		9	12970	472	
						1956	14	13589	3.7	498	13	13700	504		13	13882	508	
						1957	14	12574	3.7	464	13	12778	474		13	13019	485	
						1958	10	12457	3.6	458	9	13408	527		8	13350	503	
						1959	9	13122	3.6	464	9	12789	490		9	12162	454	
						1960	5	13752	3.5	485	3	14133	507		1	11990	416	
998262	1	1	11200	4.1	459	1955	1	11200	4.1	459	1	14100	494		1	12175	419	
999678	1	2	10365	4.1	418	1957	1	10420	4.1	425	1	11520	426					
						1958	1	10310	4.0	411	1	12370	436		1	12263	428	
1000390	39	41	13464	3.9	525	1958	4	13015	3.9	500	2	15195	539		3	11485	421	
						1959	31	13362	3.9	523	30	12054	455		27	12779	481	
						1960	6	13467	3.9	520	6	13697	494		2	13140	482	
1001512	12	16	11977	3.8	455	1956	1	11740	3.9	457	1	11420	418		1	13222	485	
						1957	3	12037	3.7	445	3	11570	458		3	10558	413	
						1958	4	11418	4.1	467	3	12743	494		3	12633	469	
						1959	6	12745	3.9	488	6	12335	466		6	12824	489	
						1960	2	10710	3.9	418	2	12280	469		2	11843	454	
1001748	3	4	13070	3.9	497	1958	1	15260	3.4	512								
						1959	2	16730	4.0	666	1	15390	575		1	16873	638	
						1960	1	7220	4.4	314	1	12720	458					
1003598	24	41	12824	3.7	475	1954	2	14970	3.6	539	2	15405	512		1	12938	450	
						1955	4	13730	3.7	502	4	12505	451		4	11562	416	
						1956	8	13464	3.7	495	8	13316	481		6	12426	450	
						1957	8	13804	3.7	514	8	14058	506		8	12741	467	
						1958	8	12946	3.8	493	5	11524	457		5	12295	488	
						1959	10	13002	3.8	492	9	12696	467		8	12842	479	
						1960	1	10040	4.0	401	1	14690	533		1	13636	552	
1004232	47	60	13048	3.8	498	1956	8	12656	3.8	481	8	13525	479		8	12052	440	
						1957	16	12722	4.0	506	14	12147	458		13	11961	454	
						1958	11	13345	3.7	496	8	12498	481		8	12207	457	
						1959	13	13042	3.8	492	12	13591	493		13	13600	495	
						1960	12	12394	3.9	476	10	13816	494		3	13487	489	
1005575	27	32	12610	3.7	455	1956	1	9330	3.7	342	1	11970	445		1	13789	484	
						1957	7	12649	3.5	446	6	13287	477		5	11929	423	
						1958	14	13192	3.7	480	11	12787	477		11	13015	474	
						1959	8	10695	3.8	404	8	11311	434		8	11621	450	
						1960	2	12495	3.5	429	2	11845	428					
1006866	6	6	15185	3.5	532	1957	1	15960	3.4	541	1	10670	406		1	15151	517	
						1958	2	16470	3.5	575								
						1959	1	17330	3.3	578	1	13530	471		1	14039	485	
						1960	2	12440	3.7	463	2	11680	426					
1007680	2	2	10330	3.9	405	1959	2	10330	3.9	405	2	11060	425		2	10955	425	
1008622	57	90	12417	3.8	468	1955	7	14077	3.5	480	6	14380	488		6	12962	476	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										305-DAY CONTEMP. AV. YEARLY HERO AVERAGE						
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.			
HOLSTEIN																						
						1956	22	13274	3.8	499	21	12947	484	18	12306	449						
						1957	15	11235	3.9	438	14	12764	486	14	12174	466						
						1958	20	11810	3.9	459	12	12616	469	11	12515	481						
						1959	20	12654	3.9	504	19	13068	499	19	13421	509						
						1960	6	12030	3.8	458	6	12395	449	1	11347	452						
1009615	5	6	13136	3.5	458	1954	4	13145	3.6	464	4	12913	471	4	12023	453						
						1955	1	13460	3.4	459	1	12760	465									
						1957	1	12740	3.2	411	1	12790	479	1	13952	489						
1012593	33	36	13164	3.6	478	1957	1	12730	3.6	486	1	12060	419	1	11467	401						
						1958	10	13709	3.5	482	5	11828	451	6	12455	467						
						1959	20	12724	3.8	476	17	12799	482	18	12903	484						
						1960	5	12568	3.6	452	5	11506	428	2	10639	383						
1013415	11	12	13252	3.6	474	1958	1	13400	3.3	444	1	13400	534	1	13778	546						
						1959	9	13023	3.7	472	9	14734	544	9	13635	504						
						1960	2	16230	3.4	543	2	14475	509									
1015251	2	3	12988	3.7	475	1957	1	13150	4.1	533	1	13430	491	1	13091	477						
						1958	1	13660	3.9	539	1	12250	553									
						1959	1	12560	3.3	414	1	14320	498	1	14039	485						
1015348	2	2	11710	3.4	396	1959	1	11340	3.4	383	1	12060	441	1	12764	464						
						1960	1	12080	3.4	409	1	12200	450									
1016212	1	1	9280	3.6	330	1960	1	9280	3.6	330							1	10540	378			
1017797	1	1	12990	3.3	426	1957	1	12990	3.3	426												
1020277	49	75	12112	3.8	454	1955	1	15600	3.8	596	1	11060	391	1	12132	433						
						1956	11	12337	3.6	447	11	12243	453	11	12112	446						
						1957	26	12517	3.9	484	24	12856	476	23	12409	463						
						1958	21	11868	3.7	434	18	12736	489	13	12704	477						
						1959	12	11506	3.9	452	12	11101	416	10	10986	415						
						1960	4	13198	3.4	451	4	13340	506	2	11979	456						
1021571	1	1	13520	3.6	481	1959	1	13520	3.6	481	1	12390	454	1	10083	353						
1022095	1	1	12360	3.6	439	1960	1	12360	3.6	439	1	11800	436									
1024453	3	3	16457	3.7	615	1958	1	15380	3.3	507	1	13080	521	1	9930	415						
						1960	2	16995	3.9	670	2	14620	584									
1026178	1	1	17950	3.7	669	1959	1	17950	3.7	669												
1028260	5	9	10603	3.4	359	1956	2	10120	3.4	350	2	12605	446	2	12720	451						
						1957	3	10887	3.3	364	3	11777	427	3	12503	438						
						1958	2	10410	3.5	362	2	13860	521	2	12246	452						
						1959	2	12285	3.6	442	2	11780	416	1	12099	417						
1030391	1	1	11690	3.7	435	1954	1	11690	3.7	435												
1030404	6	6	12417	3.6	450	1959	4	11238	3.7	412	4	11653	429	4	11952	455						
						1960	2	14775	3.6	525	2	15645	553	1	15097	534						
1032358	16	39	14044	3.7	520	1953	1	14730	4.2	612	1	14860	581	1	14072	559						
						1954	8	14154	3.7	517	7	14926	555	6	13660	516						
						1955	4	14008	3.5	480	3	13873	507	3	14064	515						
						1956	8	13664	3.7	504	6	14222	543	7	13476	517						
						1957	9	14384	3.7	532	7	14030	543	7	13982	536						
						1958	6	14013	3.7	523	5	13224	540	2	14378	517						
						1959	3	14333	3.9	554	3	13133	468	3	14617	549						
1033032	7	7	13910	3.7	509	1959	2	15290	3.5	529	2	10610	387	2	11358	418						
						1960	5	13358	3.8	501	4	14555	526	2	12906	476						
1033908	25	25	13302	3.8	502	1958	3	15717	4.0	623	3	14907	534	3	13236	487						
						1959	15	13465	3.7	492	15	13052	478	15	12761	468						
						1960	7	11916	3.9	471	5	13026	478	2	13140	482						
1034394	1	1	15010	3.2	478	1956	1	15010	3.2	478	1	12320	450	1	12699	451						
1035164	1	1	14850	3.3	489	1960	1	14850	3.3	489												
1035850	8	19	11357	3.9	442	1955	5	12046	3.8	453	4	13368	490	5	12646	466						
						1956	5	12808	3.7	474	3	12697	495	5	12217	454						
						1957	5	9724	3.9	380	5	12368	497	5	11192	426						
						1958	2	10790	3.7	394	2	13515	635									
						1959	2	12760	4.4	560	2	13510	534	2	13707	543						
1038494	1	2	16580	3.5	570	1959	1	15390	3.5	532	1	13270	458	1	11707	417						
						1960	1	17770	3.4	607	1	14030	514	1	12862	458						
1039565	14	32	13469	3.7	500	1952	2	12830	3.7	481	1	13000	517									
						1954	7	12927	3.6	463	6	13947	530	7	13623	516						
						1955	5	14882	3.7	547	5	14328	540	4	14388	519						
						1956	5	15200	3.7	563	5	14732	541	4	13998	518						
						1957	9	13969	3.5	494	9	13966	510	9	14278	520						
						1958	1	12320	3.7	456	1	14740	555	1	12720	507						
						1959	3	13433	4.0	536	1	10240	463	1	15554	590						
1040096	1	1	6890	3.8	264	1960	1	6890	3.8	264	1	11610	452									
1048342	84	155	14310	3.7	523	1954	10	14490	3.6	519	10	15415	577	9	14446	540						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1955	26	14764	3.7	542	21	13847	518	22	13691	516
						1956	31	14995	3.7	555	27	14170	543	29	14401	582
						1957	32	14157	3.8	533	28	14213	546	29	13766	528
						1958	26	14777	3.6	534	15	12760	480	15	12093	457
						1959	27	14145	3.5	497	26	13863	506	26	14010	519
						1960	3	15677	3.6	556	3	14980	568			
1049307	1	3	14667	3.5	512	1952	1	15790	3.4	539	1	14040	539			
						1953	1	14040	3.5	492	1	12370	472	1	11303	437
						1954	1	14170	3.6	506	1	12520	491	1	9439	354
1050848	1	1	14200	3.6	513	1960	1	14200	3.6	513	1	14690	565			
1054406	45	70	12241	3.8	459	1953	2	12915	3.8	490	2	14435	564	2	14846	566
						1954	7	13729	3.6	487	5	13960	531	7	12808	493
						1955	9	12062	3.7	451	9	13546	501	8	13291	483
						1956	14	12821	3.8	490	12	12707	467	11	12221	458
						1957	9	14399	3.7	536	9	13812	525	9	13710	513
						1958	10	12443	3.6	450	10	12076	484	8	12959	484
						1959	17	11512	3.8	441	17	12979	489	16	13457	510
						1960	2	8875	3.9	349	2	10175	364	1	11674	437
1054496	3	3	16330	3.6	577	1958	1	15690	3.4	529						
						1959	2	16650	3.7	601	2	12070	466	2	13309	498
1055483	24	41	13352	3.7	494	1952	1	13050	3.4	439	1	9420	355			
						1954	1	15330	3.8	584	1	12860	438	1	14530	526
						1955	7	10826	3.6	391	5	12730	462	6	12224	442
						1956	11	12469	3.9	480	8	13388	486	9	12706	460
						1957	6	12760	3.9	494	5	12500	457	5	11770	441
						1958	7	13937	4.0	551	5	13460	523	3	12331	463
						1959	8	15036	3.6	535	6	14210	521	8	13476	497
1056882	151	242	13053	3.7	479	1953	4	13388	3.6	488	3	14320	538	4	13047	480
						1954	25	13345	3.6	477	24	13239	486	22	12999	477
						1955	22	13110	3.6	475	22	12689	482	20	12707	461
						1956	43	13162	3.7	482	42	13209	487	38	12828	470
						1957	46	12652	3.7	464	43	13147	482	40	13136	489
						1958	46	13270	3.7	493	27	13481	503	26	12764	482
						1959	45	13233	3.7	489	43	12894	486	45	12926	483
						1960	11	14381	3.5	509	11	12962	492	7	12588	484
1057953	1	3	13053	3.2	414	1954	1	15370	3.1	478	1	16250	562	1	14159	485
						1956	1	11910	3.2	377	1	13710	487	1	14268	498
						1957	1	11880	3.3	387	1	15500	548	1	14988	522
1060259	1	1	11610	3.9	452	1960	1	11610	3.9	452	1	6890	264			
1061458	2	2	12840	3.7	464	1959	1	9880	3.8	380	1	11900	438	1	12470	458
						1960	1	15800	3.5	548	1	14120	505			
1061894	23	43	13221	3.8	506	1953	1	15130	3.7	566	1	15150	514			
						1954	4	12380	3.8	476	3	14203	519	3	11576	440
						1955	7	13877	4.0	548	7	14006	514	6	13300	493
						1956	10	13114	3.7	488	9	13598	507	8	12455	466
						1957	11	13471	3.8	512	10	12855	506	8	13169	499
						1958	7	12044	3.7	451	5	13604	535	5	12755	466
						1959	3	11780	3.7	443	3	12647	479	3	13214	503
1061911	10	12	12736	3.6	457	1956	2	16040	3.7	578	1	14850	512	1	13451	488
						1958	3	13570	3.3	441	2	13705	495	1	13985	516
						1959	5	12104	3.7	442	5	11492	428	5	12247	455
						1960	2	11960	3.4	405	1	10900	390	1	12568	420
1070036	7	13	12305	3.7	455	1954	2	12475	3.9	477	2	10975	396	2	10671	383
						1955	1	16290	3.4	559	1	14630	504	1	14617	475
						1956	3	13470	3.6	480	3	13300	456	2	14565	501
						1957	2	14180	3.8	541	2	11820	422	1	12731	448
						1958	3	10270	3.8	389	3	10677	369	3	11144	393
						1959	2	10520	3.1	319	2	11790	413	2	11543	403
1070850	1	1	12120	3.6	440	1959	1	12120	3.6	440	1	15200	590	1	12895	506
1073818	6	12	10712	3.5	381	1953	1	10730	3.9	421	1	12450	457	1	12208	436
						1954	3	11803	3.5	417	3	11697	429	2	9908	352
						1955	2	10355	3.7	381	2	13590	525	2	11718	430
						1956	2	11805	3.4	410	2	11860	420	2	12503	437
						1957	2	12290	3.5	433	2	13615	508	2	12682	470
						1958	1	15640	3.6	564	1	12300	479	1	12884	508
						1959	1	8480	3.6	302	1	9680	371	1	11183	435
1074864	11	11	15149	3.8	581	1959	7	16864	3.8	643	7	13756	520	7	14031	525
						1960	4	12148	3.9	472	4	11888	442	2	13941	504
1081270	19	25	11408	4.0	452	1954	1	9240	4.1	330				1	10769	409
						1955	4	9360	4.1	375	3	12800	468	4	12903	469
						1956	3	12497	3.7	450	2	11885	446	2	11380	407
						1957	2	14420	3.7	522	1	11270	415	1	11750	438
						1958	3	10807	4.0	431	3	12970	475	3	12404	469
						1959	10	11793	4.1	479	10	12756	479	9	12599	477
						1960	2	12380	4.1	504	2	11160	400	1	12154	452



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1113278	30	47	13209	3.7	482	1957	13	12506	3.7	463	11	13708	505	11	13530	496
						1958	16	11944	3.5	427	16	12304	475	12	12472	469
						1959	13	13392	3.6	492	11	13020	491	11	13213	483
						1960	3	13910	3.7	519	3	14033	521	1	11412	419
						1955	4	13778	3.8	517	3	12237	467	4	11519	429
1113350	1	1	8910	4.1	363	1956	8	11885	3.6	425	7	11417	411	5	11940	436
						1957	13	13578	3.7	498	10	13487	465	10	14158	520
						1958	8	14064	3.6	508	4	13295	496	3	13247	471
						1959	13	13842	3.7	509	12	13238	489	12	13546	505
						1960	1	13410	3.9	520	1	13690	538			
1116074	17	30	14209	3.5	492	1960	1	8910	4.1	363	1	8960	325			
						1954	5	16018	3.3	523	4	13830	469	2	15598	596
						1955	6	13723	3.7	510	4	12145	436	5	11818	426
						1956	4	15723	3.6	562	4	14473	539	3	12441	477
						1957	6	13598	3.6	490	5	13914	518	5	13008	484
1119514	36	61	13975	3.5	484	1958	5	14486	3.6	517	5	11914	478	3	13153	508
						1959	3	11893	3.4	400	3	10857	405	3	13352	500
						1960	1	9830	3.5	343	1	9520	386	1	11292	440
						1954	3	14873	3.6	539	3	15280	579	3	14228	543
						1955	7	14274	3.4	492	7	14313	518	6	13567	501
1121706	8	8	14543	4.0	577	1956	14	13225	3.5	467	13	13121	481	13	12486	453
						1957	9	14092	3.6	507	7	13247	488	9	13606	502
						1958	12	14609	3.5	511	11	12598	513	7	12809	484
						1959	11	14575	3.4	497	11	13345	500	9	13932	513
						1960	5	13068	3.4	436	3	12633	458	1	15097	534
1122159	1	1	11170	4.1	453	1959	7	14223	4.0	568	7	14146	544	7	14248	542
						1960	1	16780	3.8	635	1	12580	495			
1125395	9	10	12597	3.6	459	1959	1	11170	4.1	453	1	15840	603	1	14726	571
						1956	1	9840	3.8	371	1	13540	481	1	12906	480
1126687	1	1	10560	4.3	458	1957	1	10240	3.4	343	1	10220	404	1	13298	460
						1958	4	13385	3.6	482	3	13770	526	3	13436	500
						1959	4	12468	3.7	456	4	12548	480	4	12639	476
						1956	1	9840	3.8	371	1	13540	481	1	12906	480
1131008	1	5	14544	3.8	549	1957	1	16380	3.8	619	1	14790	512	1	14508	523
						1954	1	16190	3.8	611	1	14200	487	1	13789	484
						1955	1	8510	3.8	325	1	11040	375	1	14148	498
						1956	1	17120	4.1	694	1	10030	357	1	13789	484
						1957	1	16380	3.8	619	1	14790	512	1	14508	523
1132993	36	55	13518	3.8	508	1959	1	14520	3.4	496	1	16550	551	1	16034	552
						1955	2	16360	3.7	609	2	15420	554	2	13244	471
						1956	11	13291	3.7	492	10	13460	489	9	14047	506
						1957	16	13759	3.7	509	15	13251	476	16	13737	493
						1958	13	15420	3.8	585	11	10801	424	8	13534	500
1138441	2	2	14225	3.3	462	1959	10	12847	3.8	492	10	13149	490	10	13079	483
						1960	3	11053	3.7	412	3	12813	464	1	14181	502
						1957	1	16960	3.1	530	1	11620	410			
						1960	1	11490	3.4	393	1	10490	372			
						1955	2	13020	3.8	489	2	11830	446	2	12666	436
1145788	79	115	13066	3.8	493	1956	15	13507	3.8	514	13	14015	524	12	13889	524
						1957	32	13273	3.8	501	31	13808	524	29	13636	523
						1958	40	13156	3.8	498	31	13190	515	27	12565	488
						1959	23	13532	3.8	511	23	13661	497	23	13453	497
						1960	3	16567	3.8	630	2	17910	660			
1146113	1	3	6170	4.3	268	1957	1	8110	4.2	344	1	9820	367			
						1958	1	6320	4.5	283	1	7720	292			
						1959	1	4080	4.3	176				1	10726	397
1149460	4	4	13540	3.7	491	1959	2	12715	3.9	484	2	14035	539	1	12470	458
						1960	2	14365	3.5	498	1	13710	501			
1151863	11	11	13272	3.8	505	1959	8	13449	3.9	520	8	12536	467	8	13023	481
						1960	3	12800	3.6	466	2	12400	456			
1152351	5	9	11897	3.8	441	1957	5	11592	3.8	428	5	11542	435	4	8578	340
						1958	4	12670	3.7	466	4	11450	497	1	10802	410
1153740	2	2	15135	4.0	606	1960	2	15135	4.0	606	2	15555	572			
1156059	6	7	12373	3.9	486	1958	1	10870	4.2	457	1	13170	471	1	14464	522
						1959	3	12890	3.8	494	3	11610	450	3	12561	466
						1960	3	12477	3.8	470	3	11920	429			
1157722	8	8	11448	3.7	424	1958	4	12708	3.6	463	2	12990	496	2	13216	508
						1959	3	11760	3.8	447	3	13107	499	3	12757	475
						1960	1	5470	3.6	198				1	11674	437
1160414	72	102	13147	3.9	511	1955	1	16240	3.9	638	1	14370	588	1	11696	441
						1956	17	14240	3.9	550	15	14802	565	17	13804	523

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	32	13210	3.9	515	29	14307	535	29	13593	523
						1958	26	13520	3.8	518	23	12859	504	17	13224	496
						1959	22	12349	3.9	481	21	12746	473	21	12781	478
						1960	4	12255	3.8	458	3	11427	446	1	14813	536
1164014	3	3	13363	4.0	529	1958	1	10330	4.3	446	1	7360	249	1	11576	415
						1959	2	14880	3.8	571	2	13015	490	2	13167	467
1164018	2	2	12350	3.6	441	1959	2	12350	3.6	441	2	12205	457	2	12655	475
1165194	4	4	10513	4.0	414	1959	3	9290	4.2	390	3	12260	491	3	12641	499
						1960	1	14180	3.4	486	1	12910	481			
1170910	10	10	13553	3.8	512	1958	1	12690	3.9	489	5	13566	515	5	13575	496
						1959	6	13913	3.9	538	2	13345	510			
						1960	3	13120	3.5	468						
1172141	43	56	12963	3.6	467	1957	10	13585	3.7	495	10	13874	522	9	13493	512
						1958	20	12642	3.6	461	16	14345	536	16	13133	499
						1959	20	12704	3.6	458	17	13372	500	19	13147	492
						1960	6	12570	3.5	441	5	13244	486	1	12960	473
1175466	2	4	13513	3.7	494	1957	1	13190	3.5	467	1	13140	440	1	12230	429
						1958	2	14415	3.6	512	2	12195	480	1	14464	522
						1959	1	12030	4.0	486	1	13330	499	1	12404	461
1175467	3	3	12067	3.6	435	1958	1	15430	3.4	525	1	14010	499	1	14464	522
						1959	2	10385	3.8	390	2	12965	485	2	13369	497
1178742	1	2	10505	3.6	379	1957	1	8940	3.7	330	1	14980	528	1	12426	446
						1958	1	12070	3.5	427	1	11850	546			
1179373	1	1	15000	3.8	566	1959	1	15000	3.8	566	1	15170	608	1	14900	574
1179574	15	18	12482	3.9	484	1957	3	9807	4.0	392	3	13743	498	3	14486	535
						1958	3	13937	3.8	528	2	11325	407	2	12868	465
						1959	8	13316	3.8	511	7	12920	467	8	13402	499
						1960	4	13025	3.9	508	3	12817	477	1	12611	467
1179575	7	7	11297	3.8	424	1957	2	12865	3.7	472	2	15135	564	2	14906	564
						1958	1	11870	3.7	434						
						1959	4	10370	3.9	397	4	11733	447	4	11551	435
1182696	1	1	11610	3.5	402	1957	1	11610	3.5	402	1	8760	311	1	9069	339
1184848	2	2	14900	3.8	562	1958	1	12760	4.1	520						
						1959	1	17040	3.5	603	1	13160	471	1	12491	479
1190151	6	6	13435	3.8	499	1959	5	12836	3.7	470	5	13908	530	3	14344	518
						1960	1	16430	3.9	642	1	14020	544			
1192779	3	4	11953	3.7	436	1957	1	15380	3.5	539						
						1958	1	13520	3.5	469	1	10790	389	1	11543	435
						1959	2	10705	3.8	402	2	11875	469	2	13058	511
1192784	3	4	15817	3.3	519	1958	2	10930	3.4	368	2	10185	393	2	10366	385
						1959	2	18260	3.3	595	1	15250	557	2	15424	549
1192789	1	1	12350	4.1	512	1959	1	12350	4.1	512	1	16170	597	1	13810	506
1193934	2	3	16160	3.8	612	1958	1	18730	3.9	738	1	12460	459	1	14126	521
						1959	1	14870	3.7	554	1	13790	526	1	14606	546
						1960	1	12310	3.4	418	1	11600	450			
1194165	1	2	12925	3.9	503	1958	1	12900	4.0	518				1	12219	449
						1959	1	12950	3.8	487						
1194166	2	3	15048	4.0	588	1958	1	11930	4.1	491	1	11760	407	1	11859	453
						1959	2	15655	3.9	603	2	14030	481	2	13669	495
1200288	3	3	14613	3.6	528	1958	1	15670	3.8	590	1	13810	526	1	12459	482
						1959	1	15480	3.4	522	1	14060	536	1	12709	474
						1960	1	12690	3.7	473	1	15270	575			
1203114	1	1	10040	3.7	373	1960	1	10040	3.7	373						
1209569	15	18	13420	4.0	529	1957	1	11370	4.2	481	1	12740	469	1	15554	617
						1958	10	14071	3.9	548	7	13070	490	7	12694	487
						1959	7	12386	4.0	496	6	14413	547	6	14236	543
1210295	1	1	5840	3.5	205	1960	1	5840	3.5	205				1	10856	426
1211335	2	2	13355	3.8	505	1958	1	14080	3.6	508						
						1959	1	12630	4.0	501	1	14830	558	1	15413	577
1215686	1	2	10705	3.9	413	1958	1	10390	3.9	406	1	11530	455	1	10148	389
						1959	1	11020	3.8	420	1	10910	418	1	9254	355
1215687	1	1	10580	3.5	375	1959	1	10580	3.5	375	1	15320	547	1	12491	479
1216909	5	5	12360	3.8	460	1958	2	13410	3.6	475						
						1959	3	11660	3.9	451	3	14400	520	3	13080	505
1216957	13	14	12428	3.9	482	1958	1	11160	3.4	385	1	13120	483	1	14464	522



TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
						1959	11	12444	3.9	481	11	12827	475		11	12578	465
						1960	2	12870	3.9	502	2	12775	466				
1221761	1	1	15090	3.7	559	1959	1	15090	3.7	559	1	13620	492		1	12600	468
1224123	2	2	9970	4.9	484	1959	2	9970	4.9	484	2	11915	455		2	11598	443
1224313	5	5	12286	3.6	443	1957	1	13180	3.5	466	1	18200	608				
						1959	4	12063	3.7	437	4	11613	443		4	12276	461
1234371	7	10	13082	3.8	487	1958	1	12350	3.4	420	1	13340	467		1	12426	438
						1959	6	13002	3.9	496	5	13464	509		5	14271	554
						1960	3	12067	3.7	444	2	12785	463				
1236249	3	4	9555	3.6	342	1958	2	9020	3.5	320	1	15620	584		1	13887	496
						1959	1	12200	4.1	496	1	13530	453		1	13996	491
						1960	1	9570	3.4	324	1	10020	351				
1237594	1	1	7890	3.9	307	1959	1	7890	3.9	307	1	8740	320		1	8578	304
1239208	1	1	13950	3.7	511	1959	1	13950	3.7	511	1	13980	523		1	14235	524
1239479	2	2	12195	3.9	474	1959	2	12195	3.9	474	2	13265	497		2	14279	550
1239480	1	2	18160	3.8	684	1959	2	18160	3.8	684	1	13290	525		1	14530	579
1240095	1	1	14110	3.5	499	1959	1	14110	3.5	499	1	14160	565		1	14900	574
1246183	3	4	16502	3.0	506	1959	3	16957	3.0	521	3	17033	631		3	15311	553
						1960	1	14400	3.2	465	1	15210	553				
1246450	3	3	14003	3.7	509	1959	2	13775	4.0	542	2	11910	481		2	13157	501
						1960	1	14460	3.1	442					1	13178	477

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
351545	5	9	8029	5.2	414	1947	3	8073	5.6	450						
						1949	2	6935	5.0	350						
						1951	2	8550	5.2	441						
						1952	2	8895	5.2	457						
355637	1	1	7790	5.5	428	1947	1	7790	5.5	428						
371588	1	1	7280	4.9	358	1952	1	7280	4.9	358						
382000	3	4	7627	5.4	405	1947	2	6475	5.6	362	2	6480	362			
						1948	2	9930	5.0	492						
387275	4	9	5743	5.0	288	1947	1	7310	5.2	383						
						1948	2	8295	5.0	419						
						1949	2	7380	5.4	396						
						1950	1	7120	5.4	388						
						1951	2	4910	4.9	244						
						1953	1	5720	5.0	285						
388255	4	4	6963	4.8	347	1947	2	7940	5.2	414						
						1949	2	5985	4.5	280						
403239	1	3	7727	5.5	425	1951	1	7270	5.5	400						
						1953	1	7550	5.5	416						
						1954	1	8360	5.5	460						
407306	9	14	8064	5.0	400	1952	1	8880	5.0	442						
						1953	3	7483	5.0	369						
						1954	4	6688	5.1	331						
						1955	3	7513	5.0	370	2	7015	368	1	6813	366
						1956	1	10480	5.1	534						
						1957	1	6950	4.6	320						
1959	1	11540	5.3	608												
408564	6	16	8544	5.3	449	1951	2	8695	5.2	447	1	8670	467			
						1952	3	8590	5.0	427	1	9220	481			
						1953	3	8590	5.1	443	1	9150	481			
						1954	2	7750	5.6	438	1	6710	349	1	6856	354
						1955	2	8075	5.2	412	1	7100	374	1	7347	387
						1956	1	11000	5.3	584						
						1957	2	8595	5.0	429	1	7830	426	1	7957	429
						1958	1	6840	5.3	362	1	7110	383	1	7935	437
409332	6	11	7755	5.0	392	1952	3	6750	5.0	338						
						1953	3	8933	5.2	463	2	8300	434	1	7521	408
						1954	1	8680	4.8	417	1	8930	450	1	9657	476
						1955	1	6500	5.0	322	1	9250	458	1	9548	480
						1956	2	8295	4.9	405	2	8585	398	2	9396	476
						1957	1	6880	4.5	311	1	8880	431	1	9200	458
419248	2	2	11245	4.9	544	1959	1	11460	4.6	528	1	10180	503	1	9657	494
						1960	1	11030	5.1	560	1	11170	566			
421181	8	20	7950	5.0	394	1951	5	7740	5.0	386						
						1952	6	7858	5.1	402						
						1953	4	8480	5.0	425						
						1954	3	6687	4.6	313	1	7610	341			
						1955	1	6530	5.6	367	1	8950	405			
						1956	1	4960	5.6	278	1	6470	297			
423123	1	2	7525	5.0	373	1950	1	6870	5.2	360						
						1951	1	8180	4.7	385						
426542	6	7	5646	5.7	325	1952	2	5075	5.7	297						
						1953	2	6080	6.1	366						
						1955	1	4730	5.6	263						
						1956	2	5765	5.5	315						
426702	3	10	8478	5.4	460	1951	2	9470	5.5	518						
						1952	1	9400	5.3	498						
						1953	2	8115	5.6	452						
						1954	2	8750	5.8	503	1	9040	437	1	8807	450
						1955	1	9950	5.2	514						
						1957	2	6935	4.9	344						
426784	5	12	8087	5.3	426	1952	1	6350	4.5	285						
						1953	4	8240	5.4	450	1	9620	477	1	8960	457
						1954	1	11300	4.1	467						
						1955	2	6805	5.5	375						
						1956	1	9620	4.2	404						
						1958	2	8970	5.1	458						
						1959	1	9400	4.2	396						
431207	1	2	9255	5.4	498	1951	1	8920	5.4	485						
						1952	1	9590	5.3	510						
431208	4	14	8107	5.2	419	1947	1	8640	5.8	498						
						1948	3	8740	5.1	447						
						1949	1	7410	5.4	398						
						1950	2	6720	5.7	378						
						1951	1	10140	4.9	493						
						1952	1	7340	5.1	376						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.					
JERSEY																					
434694	10	20	7844	4.9	378	1954	1	6290	5.3	333											
						1955	1	6590	5.2	342											
						1956	2	6320	5.0	311											
						1958	1	4800	5.0	239											
						1951	3	6960	5.1	344											
						1952	4	7890	4.7	368	2	6445	327								
						1953	6	8463	4.6	405	4	7853	400	3	7790	374					
435238	3	4	9162	4.3	374	1954	3	8703	4.9	416	2	8125	447	2	8050	414					
						1955	2	6735	4.8	324	2	7735	369	2	7402	377					
						1956	1	7510	4.8	362	1	5930	329	1	7107	374					
						1957	1	10750	4.7	505	1	8590	426								
						1955	2	11630	4.2	464											
						1956	1	6870	4.6	316											
						1957	1	5040	4.6	242											
437211	2	6	10435	4.5	471	1949	2	10190	4.6	469											
						1950	1	9080	4.6	418											
						1951	2	10570	4.5	476											
						1952	1	9110	4.4	398											
437533	1	2	7470	4.7	356	1952	1	8120	4.7	383											
						1955	1	6820	4.6	317	1	6480	336								
438165	3	6	8292	5.4	452	1957	2	10090	5.5	553	1	9390	518	1	9658	492					
						1958	3	7143	5.2	371	1	7650	390	1	6704	358					
						1959	1	8570	5.5	468											
438400	18	38	7352	5.2	383	1952	2	4450	5.0	226											
						1953	8	8586	4.9	423	5	8310	432	2	8088	411					
						1954	10	7034	5.4	377	5	7674	404	2	6518	342					
						1955	6	7443	5.1	378	4	8683	443	3	8680	446					
						1956	4	8923	5.2	461	4	8675	433	4	8418	428					
						1957	3	8236	5.0	425	2	8680	438	2	8884	455					
						1958	1	8350	4.8	400											
						1959	1	8390	5.6	466	1	7080	392	1	8567	456					
						1960	3	9540	5.2	499	1	6800	367	1	7183	382					
						439203	2	2	7095	5.0	356	1953	1	7690	4.7	365					
1954	1	6500	5.3	347	1							7220	345	1	7881	365					
439641	6	23	9236	5.2	467	1951	1	10760	4.8	513	1	8250	430								
						1952	1	12180	4.9	593	1	9240	454								
						1953	3	9370	5.0	471	3	7663	391								
						1954	4	8948	5.4	472	3	8253	408	3	9065	446					
						1955	5	9626	5.0	472	4	8960	458	4	8843	453					
						1956	3	8033	5.3	421	5	9757	488	3	9327	478					
						1957	3	9297	5.2	470	2	8865	455	2	9129	475					
						1958	2	6920	5.5	364	1	9220	452	1	8371	446					
						1959	1	11570	4.8	556	1	9820	553	1	9036	464					
						440103	1	1	10130	5.5	553	1958	1	10130	5.5	553					
1950	2	9015	5.0	452																	
1951	3	8157	5.4	438																	
1952	2	8745	5.2	451																	
1953	2	9580	5.0	470																	
1954	1	9580	5.1	470																	
1956	1	10960	4.9	534																	
445150	11	32	8441	5.3	438	1959	1	11350	4.8	544	1	8610	430	1	9091	462					
						1953	7	8813	5.0	438	4	7113	398	1	7183	380					
						1954	7	7823	5.6	421	5	7490	395	4	6889	366					
						1955	8	8674	5.6	480	5	8112	420	5	7414	383					
						1956	5	8948	5.6	503	3	9677	526	3	8117	446					
						1957	2	8855	5.5	486	2	8235	446	2	7652	411					
						1958	2	8635	5.4	458	1	7430	411	1	6998	387					
445349	2	5	6847	4.8	320	1959	1	5720	5.4	306	1	8570	403	1	7576	400					
						1953	1	8260	4.6	378	1	8370	431								
						1954	2	6635	4.8	312	1	8340	419	1	8131	405					
						1955	1	9520	4.6	437	1	8830	493	1	8938	458					
						1956	1	10460	4.5	475	1	9930	487	1	9559	485					
445431	1	3	11143	5.5	614	1955	1	10800	5.9	633											
						1956	1	9470	5.3	500											
						1957	1	13160	5.4	710											
446754	10	29	6869	5.2	354	1953	6	6740	5.1	341	5	9526	497	3	7928	423					
						1954	6	7587	5.3	396	4	7933	422	4	7635	415					
						1955	4	8640	5.0	426	3	8233	448	3	7524	386					
						1956	2	8645	4.3	373	1	10200	548	1	10093	507					
						1957	3	8607	4.6	388	1	10740	526	1	9200	458					
						1958	2	8240	4.2	348	1	10440	509	1	8175	404					
						1959	4	7665	5.1	386	2	8340	419	2	6421	442					
						1960	2	7540	5.8	436	1	8230	441								
						446985	2	5	7565	4.8	363	1953	1	8090	5.0	404	1	6960	335		
												1954	1	7670	4.7	359					

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP. AV. YEARLY HERO AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	RECORDS NO.	MILK LBS.	FAT LBS.	RECORDS NO.	MILK LBS.	FAT LBS.	
JERSEY																	
						1955	1	6250	4.6	289							
						1956	1	7450	4.5	335							
						1957	1	6790	4.5	302							
448941	15	39	6435	5.3	336	1950	2	5335	5.6	305	1	7140	354				
						1951	5	7414	5.4	397	3	7947	388				
						1952	12	6752	5.4	359	5	6530	318				
						1953	2	5970	5.0	295	1	7010	346	2	7009	361	
						1954	6	6857	4.9	337	6	6430	310				
						1955	7	6597	5.2	337	7	6867	339	7	6889	350	
						1956	5	6590	4.9	322	5	7248	360	5	6627	337	
449171	1	5	12084	4.8	578	1949	1	9240	5.0	458							
						1951	1	14760	5.1	750							
						1952	1	12890	4.6	597							
						1953	1	11530	4.5	524							
						1954	1	12000	4.7	562							
449470	5	12	7449	4.9	365	1953	4	7798	4.5	351	1	6670	335				
						1954	3	6983	4.4	304	1	7180	392	1	6180	350	
						1955	3	7910	4.6	362	1	8600	437	1	6813	366	
						1957	1	11270	4.9	557	1	8510	445	1	7543	378	
						1960	1	7210	6.2	448	1	8830	476	1	8273	449	
450099	1	1	7240	5.7	414	1949	1	7240	5.7	414							
450101	1	1	5480	6.3	348	1949	1	5480	6.3	348							
451141	8	18	9405	5.8	542	1953	1	7650	5.8	446							
						1954	5	9366	5.6	521	3	8103	432	4	8238	454	
						1955	5	9870	5.9	573	4	7570	408	4	8053	458	
						1956	4	10183	5.5	548	3	8253	436	4	7922	411	
						1957	2	7810	6.3	492	2	8620	496	2	8660	474	
						1958	1	7460	5.9	441	1	6990	367	1	7935	437	
453500	1	3	7633	5.6	426	1954	1	8280	5.5	452				1	8731	404	
						1955	1	7380	5.4	399				1	8382	395	
						1956	1	7240	5.9	427				1	9385	449	
454049	4	9	9235	5.2	480	1955	1	7580	5.9	446	1	6980	416	1	8818	445	
						1956	1	10000	5.1	506	1	9670	475	1	8644	426	
						1957	2	7185	5.2	375	2	8780	444	2	8944	406	
						1958	1	8580	5.2	446	1	8480	479	1	8371	446	
						1959	4	9955	5.1	506	2	10860	540	2	9849	500	
454147	5	6	7211	5.6	402	1955	3	7640	5.7	431							
						1956	3	7803	5.4	423	2	8190	427	2	6600	441	
460676	2	6	7978	4.6	369	1954	1	7820	4.4	344							
						1955	2	9085	4.6	420							
						1956	1	7650	4.5	348							
						1957	2	6830	4.7	320							
462961	4	7	7648	5.0	383	1954	1	8290	4.3	358							
						1955	3	7623	4.9	377	1	6450	330	1	7347	387	
						1956	2	7820	5.0	369							
						1958	1	7200	5.5	398	1	7950	418	1	7118	368	
463576	9	10	7418	5.4	402	1958	2	7520	5.5	418	2	8995	463	2	9151	474	
						1959	8	7340	5.3	393	6	7845	402	6	8335	432	
466643	4	6	8633	5.2	445	1955	2	7450	5.1	378							
						1956	2	5840	5.1	292							
						1959	1	11490	5.2	597	1	9530	503	1	9636	526	
						1960	1	9750	5.3	512	1	8260	413				
468937	5	9	10113	5.4	537	1958	2	6780	5.8	392	1	8610	436				
						1959	3	9530	5.4	503	3	9333	463	3	9370	476	
						1960	4	11278	5.4	602	3	11120	553				
472114	2	3	7630	5.9	444	1959	2	9430	5.7	535	1	8140	434	1	7750	421	
						1960	1	5830	6.0	352	1	8140	434				
473215	2	3	11693	5.3	616	1960	3	12560	5.3	665	2	10830	542				
475448	2	3	8250	5.0	409	1954	1	9100	4.6	417							
						1955	1	7540	5.5	413							
						1957	1	7260	5.3	386							
475547	1	1	6320	5.6	352	1956	1	6320	5.6	352	1	7720	395	1	7216	359	
475680	2	4	8215	5.3	428	1957	1	8790	5.0	437	1	7310	416	1	7957	429	
						1958	2	7775	5.2	403	2	7895	432	2	8153	442	
						1959	1	8520	5.5	468	1	8150	450	1	9036	484	
478650	2	3	7043	6.2	432	1957	1	6830	6.1	415							
						1958	1	6960	6.1	426	1	9020	484	1	9407	486	
						1959	1	7550	6.2	470	1	8730	470	1	9003	469	
480287	4	6	8301	4.7	390	1956	1	7170	4.1	296							
						1957	1	11160	4.6	516	1	7830	386	1	9287	488	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
						1958	1	8410	5.1	426	1	9350	503	1	8371	446
						1959	3	8917	4.9	433	2	9355	469	3	8302	454
488392	1	1	7000	5.4	380	1959	1	7000	5.4	380	1	5550	295	1	5592	283
490707	1	2	8655	4.8	412	1959	2	8655	4.8	412						
496820	11	17	7213	5.4	383	1957	1	6890	5.7	391						
						1958	9	8020	5.3	418	7	9093	478	6	8611	445
						1959	7	7511	5.3	389	5	7688	398	6	7792	399
497599	13	19	7481	5.2	385	1957	3	7720	5.0	385						
						1958	8	7473	5.2	388	3	7480	400	3	7260	387
						1959	8	6621	5.3	344	5	7998	404	5	8302	429
502114	3	3	8640	5.1	445	1957	1	10110	5.2	526	1	12040	618	1	9134	461
						1959	2	7905	5.1	405	1	7830	420	1	6998	363
503160	1	1	10000	5.1	517	1960	1	10080	5.1	517						
503535	3	5	9260	5.2	473	1958	2	8235	5.1	414	2	9830	507	2	9167	511
						1959	3	9673	5.2	497	3	9650	503	3	8764	472
503968	2	2	8910	5.0	431	1958	1	7520	5.7	430						
						1959	1	10300	4.2	432	1	7390	349	1	8698	426
504455	1	1	7630	5.8	442	1957	1	7630	5.8	442						
505057	1	1	7480	5.1	383	1958	1	7480	5.1	383	1	7520	384	1	6704	358
505549	6	9	9557	5.1	481	1959	4	9340	5.1	475	1	8400	459	2	8900	454
						1960	5	9708	5.0	480	3	8237	411			
506697	16	20	9096	5.1	460	1957	2	8170	5.0	408	2	8520	439	2	8154	417
						1958	7	8190	5.3	437	4	8213	431	4	8423	427
						1959	9	9958	4.8	466	6	8493	461	6	8600	448
						1960	2	9990	4.8	476	1	6730	388	1	7129	391
507867	2	4	5500	5.4	299	1958	2	7640	5.6	423	2	8605	462	2	9668	514
						1959	2	3360	5.2	175	2	7665	401	2	9619	509
508176	2	3	10080	4.9	493	1959	3	9543	4.8	458	2	8630	445	2	9314	468
510522	6	8	8563	5.1	433	1959	5	8048	5.2	414	4	8318	432	4	7897	415
						1960	3	8663	5.1	440	3	9073	454			
512545	5	5	8488	5.1	422	1958	3	7150	5.4	379						
						1959	1	11580	4.3	503	1	10020	531	1	8764	472
						1960	1	9410	5.0	471	1	9680	504			
517081	4	8	7513	5.6	419	1953	1	7216	4.9	355						
						1957	1	7170	6.2	441						
						1958	3	7317	5.7	418	1	7290	406	1	8022	392
						1959	1	8100	5.7	458	1	7350	405			
						1960	2	7500	5.7	432	2	7190	370			
519244	1	1	8520	5.4	456	1960	1	8520	5.4	456	1	8750	447			
522014	1	1	8830	5.0	437	1959	1	8830	5.0	437	1	7710	405	1	7804	398
527147	1	1	9060	5.3	483	1959	1	9060	5.3	483	1	10330	534	1	8764	472
529555	1	2	8140	5.4	442	1957	1	8240	5.4	445	1	8860	444	1	8829	440
						1959	1	8040	5.4	438	1	7870	406	1	6998	363
534366	3	6	8320	4.6	382	1954	1	8970	4.4	398						
						1955	2	7825	4.7	365	1	12390	647	1	8840	428
						1956	1	6700	4.3	287						
						1957	1	6960	4.7	328						
						1960	1	10140	4.5	458	1	6550	320			
534381	2	2	10305	5.6	564	1960	2	10305	5.6	564	2	8110	402			
534455	1	3	7873	5.4	422	1958	2	8010	5.5	441	1	8500	424			
						1959	1	7600	5.1	385	1	7500	458	1	8796	439
535607	1	1	6920	5.6	384	1959	1	6920	5.6	384						
537666	1	1	8340	4.9	413	1960	1	8340	4.9	413	1	6240	346	1	7129	391
546648	3	3	9500	5.2	490	1958	2	9545	5.3	503	1	6740	361	1	7619	384
						1960	1	9410	4.9	464	1	7040	346			
550722	1	1	8050	4.6	367	1957	1	8050	4.6	367	1	12310	522	1	7990	386
550723	1	1	5490	5.9	323	1960	1	5490	5.9	323	1	5910	291	1	7794	403
553507	2	5	6552	5.5	355	1959	4	6715	5.5	368	2	6460	340			
						1960	1	6300	4.6	288	1	9660	619	1	7183	382
557267	8	12	7568	5.0	372	1959	6	9253	4.8	438	4	9023	466	3	8683	445
						1960	6	7255	5.0	361	5	7960	437	2	7794	403
557268	8	13	6564	5.5	359	1958	5	6956	5.5	381	3	7650	390	3	7979	403
						1959	3	7910	5.4	425	3	8407	411	3	7950	385
						1960	5	5450	5.4	294	4	8248	430	3	7125	364
558300	1	1	5230	5.4	281	1959	1	5230	5.4	281	1	7260	356	1	8219	370
561487	1	1	9780	5.2	509	1959	1	9780	5.2	509	1	7760	406	1	7804	398



TABLE 15.--DAUGHTER-AVERAGE OF SIKLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
BROWN SWISS																						
41664	1	1	8000	4.8	380	1952	1	8000	4.8	380												
43108	1	6	10012	3.7	364	1951	1	11560	3.9	447	1	10600	415									
						1953	1	10050	3.8	378	1	10910	457	1	9548	395						
						1954	1	9770	3.8	370	1	11790	496	1	10715	448						
						1955	1	9740	3.5	343	1	10936	437	1	9385	367						
						1956	1	9320	3.6	331	1	12270	495	1	10693	416						
						1957	1	9630	3.3	313	1	9850	393	1	8796	350						
44741	1	2	7975	3.9	312	1947	2	7975	3.9	312												
45892	2	9	11293	3.9	443	1947	1	8100	3.8	309												
						1950	1	17470	3.9	688												
						1951	1	14730	4.0	587												
						1952	1	16460	4.3	701												
						1953	1	14310	4.1	580												
						1954	1	15790	4.1	642												
						1956	1	11000	4.0	440												
						1957	1	14130	3.9	548												
						1959	1	12000	3.6	427												
46379	7	14	10226	3.9	403	1954	1	13970	3.8	533	1	12170	473	1	10366	409						
						1955	5	9978	3.9	392	4	10950	421	4	10116	396						
						1956	2	9215	3.8	351	2	10950	397	2	9407	364						
						1957	2	9715	3.8	369	2	10055	394	2	9385	355						
						1958	5	10037	4.2	419	1	11920	509	1	11936	484						
						1960	1	9930	4.4	439	1	13600	552									
47974	1	4	11600	4.2	492	1950	1	12400	4.0	501	1	12510	499									
						1951	1	11210	4.2	475	1	10400	391									
						1952	1	10840	4.4	477	1	11090	466									
						1954	1	11950	4.3	515	1	11480	476	1	10715	448						
48098	1	1	9340	4.0	375	1957	1	9340	4.0	375	1	11190	440	1	9865	360						
48344	1	1	11030	3.6	397	1957	1	11030	3.6	397	1	10680	467	1	10835	436						
48949	2	3	10985	4.1	460	1951	2	11610	4.1	495												
						1954	1	14230	4.2	605												
49266	2	4	8230	4.4	355	1952	1	12850	4.4	566	1	13910	586									
						1953	2	8290	4.3	356	1	12740	531									
						1954	1	11270	4.2	470	1	13280	549	1	11271	465						
51890	7	8	9806	3.9	385	1954	1	8400	4.6	387												
						1955	1	9330	3.7	348	1	5450	234	1	8044	328						
						1956	4	10510	3.9	409	2	9750	363	2	9887	383						
						1957	2	9520	3.7	351	2	10255	391	2	9598	366						
58918	1	1	9430	3.7	351	1958	1	9430	3.7	351												
59455	1	2	7690	4.3	328	1959	2	7690	4.3	328												
59699	11	20	9292	4.4	404	1956	4	8193	4.6	376	2	10005	365	2	9184	348						
						1957	1	5690	4.1	232	1	9670	360	1	9330	352						
						1958	5	10034	4.6	455	3	10447	408	3	10104	409						
						1959	7	9641	4.2	405	4	11630	472	3	11187	488						
						1960	3	10187	4.4	443	2	12245	503									
59814	9	24	9337	4.0	371	1950	4	9063	4.0	362												
						1951	6	9077	4.1	373	1	7710	339									
						1952	4	10930	4.1	458	1	8320	350									
						1953	2	6745	4.1	278	1	7950	338	1	8502	355						
						1954	1	9800	3.7	364												
						1955	1	8186	3.6	297												
						1956	1	10640	4.1	439												
						1957	1	11360	4.0	451												
						1958	3	12187	3.8	454												
						1959	1	10506	3.7	385												
						59936	2	6	10569	3.8	400	1955	2	10095	3.9	385	2	12210	473	2	11811	461
												1956	2	11160	3.9	427	2	11065	439	2	10590	419
1957	2	10450	3.7	387	2							12205	481	2	10497	407						
61381	1	2	7385	4.4	322	1958	1	6380	4.5	290												
						1959	1	8390	4.2	354												
61563	4	10	9524	4.4	416	1952	2	9030	4.5	404	1	7990	370									
						1953	2	8865	4.7	415	2	9775	412	2	8655	370						
						1954	2	8155	4.5	368	2	9595	379	2	9560	407						
						1956	1	11250	4.2	470												
						1957	1	9660	4.3	417	1	10280	385	1	10093	422						
						1958	1	11090	4.1	452												
						1959	1	10870	4.1	447												
61567	1	1	8830	4.1	362	1952	1	8830	4.1	362												
64541	11	19	11939	4.1	484	1956	2	12985	4.4	561	2	11640	450	2	10693	416						
						1957	1	8590	4.7	406	1	10470	447	1	10104	435						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTM.P.	AV. RECORDS NO.	MILK LB.	FAT LB.	YEARLY HERD AVERAGE RECORDS NO.	MILK LB.	FAT LB.
						BROWN SWISS											
64773	14	19	10358	4.4	457	1958	5	12436	3.8	471	3	10973	396		3	10544	388
						1959	7	12951	3.9	507	3	12393	492		3	12699	564
						1960	4	11466	4.0	455	2	13605	552				
						1954	1	8060	4.4	353	1	9100	355		1	6704	266
64857	11	25	11210	4.0	445	1955	3	10383	4.3	451	3	9500	377		3	9352	360
						1956	4	8483	4.5	383	4	9815	397		3	10155	407
						1957	1	8590	4.3	372	1	10710	408		1	9865	380
						1958	1	10240	4.2	427							
66318	1	4	13190	4.4	572	1959	7	10864	4.5	494	5	11550	481		5	11604	502
						1960	2	12145	4.2	501	2	11225	471				
						1952	1	14800	3.9	585	1	14050	556				
						1953	2	16875	4.0	667	2	11220	457		2	12829	521
66741	11	12	12217	3.9	472	1954	4	13613	4.0	536	4	12683	512		4	12672	489
						1955	4	12893	4.1	520	4	11678	471		4	11369	450
						1956	4	14223	4.0	567	4	12560	512		3	12902	528
						1957	5	9292	4.1	376	3	9187	377		4	10467	422
70012	16	20	12549	3.9	488	1958	3	8123	4.2	541	2	9155	386		1	8491	356
						1959	2	8080	4.1	332	1	12630	541		1	12677	530
						1952	1	12370	4.5	555							
						1953	1	12780	4.5	577							
70410	1	1	13560	4.7	637	1954	1	13270	4.2	555							
						1956	1	14340	4.2	602							
						1953	2	15345	3.6	563							
						1954	2	10497	4.2	440	2	10240	430		3	9272	391
70757	1	1	14590	4.5	651	1955	1	4920	4.0	198	1	11830	514		1	11303	474
						1957	1	10140	3.5	354	1	8540	302		1	10976	412
						1959	1	14680	3.7	544	1	11770	492		1	11968	480
						1960	4	12985	3.9	509	3	11937	490				
72394	2	3	9855	4.3	432	1955	3	14157	3.9	550	3	10780	445		2	12775	497
						1956	7	11767	3.8	452	6	10307	404		6	10392	409
						1957	4	10933	4.1	448	3	10707	419		4	9565	379
						1958	7	12380	3.7	464	5	11064	437		5	10281	464
72896	1	1	10150	3.7	376	1959	5	11936	3.7	444	4	10563	389		4	10919	426
						1960	2	14705	4.1	606	2	12755	514				
						1959	1	13560	4.7	637							
						1954	1	14590	4.5	651	1	12720	519		1	11271	465
76059	4	4	12103	4.4	533	1952	1	12760	4.5	578							
						1955	1	7090	4.2	301	1	9310	353		1	8916	356
						1957	1	6810	4.0	270	1	6040	232		1	9766	360
						1959	1	10150	3.7	376							
77775	12	16	13777	4.0	549	1954	2	12680	4.3	543	1	13010	535		1	11271	465
						1959	1	12550	4.0	580							
						1960	1	10500	4.4	465							
						1956	1	13580	3.7	504	1	11400	450		1	11772	473
78152	2	5	11742	4.5	518	1957	1	11140	3.8	419	1	10070	446		1	11609	459
						1958	5	12656	4.0	508	2	10535	449		2	10094	404
						1959	6	13155	4.0	530	5	12036	491		5	12210	503
						1960	3	15450	3.8	597	2	12405	526				
82405	25	41	11212	4.2	469	1955	1	9030	4.4	434	1	9370	396		1	11303	474
						1956	1	12350	4.3	535					1	10693	448
						1958	1	13200	4.4	584	1	13900	589		1	13778	574
						1959	1	13080	4.4	576	1	14400	596		1	11096	467
82462	1	1	3140	4.9	154	1960	1	10300	4.5	459					1	13058	542
						1953	2	10050	4.2	421	1	12770	511		1	11325	467
						1954	6	12438	4.4	554	4	11155	455		4	10388	418
						1955	1	9810	4.1	400	1	11650	456				
83585	2	4	11588	4.7	539	1956	8	10010	4.1	415	5	10204	406		4	10189	410
						1957	9	10089	4.2	417	8	9890	391		8	10859	428
						1958	6	11603	4.0	465	3	10517	426		3	10960	459
						1959	7	12074	4.1	499	5	12116	487		4	12276	505
83625	2	2	11485	4.0	463	1960	2	12235	3.8	465	2	13075	526				
						1954	1	3140	4.9	154					1	10115	402
						1958	2	10935	4.7	517	2	11350	494		2	10955	482
						1959	1	12360	4.0	565	1	11260	488		1	11020	492
84052	1	1	13220	4.2	549	1960	1	12120	4.0	556	1	11260	488				
						1959	2	11485	4.0	463	2	11010	448		2	12001	498
						1953	1	8980	4.2	380							
						1954	1	11860	4.3	508	1	11230	470		1	9025	386
85918	4	6	9892	4.2	417	1955	2	9905	4.1	406	2	10305	426		2	7538	321
						1956	1	7570	4.4	332	1	9860	410		1	8578	358
						1957	1	7806	4.1	320	1	9050	375		1	8360	347
						1950											
86498	1	2	9735	3.4	331	1953	1	8360	3.3	278	1	8950	326		1	7074	280
						1954	1	11110	3.4	383	1	8950	335		1	8862	343
						1958	2	12290	4.3	520	1	11050	469		1	11081	483
						1959											

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	FAT LB.	
						1959	BROWN 1	SWISS 11720	4.2	490							
90092	2	5	8559	4.0	340	1955	2	9250	4.0	367	2	8740	333		2	8916	356
						1956	2	8520	4.0	339	2	9195	343		2	9821	395
						1957	1	7010	3.6	251	1	5990	237		1	9766	380
91234	11	20	12431	3.8	468	1954	3	13163	3.7	457	1	12540	498		2	10110	386
						1955	3	12253	3.8	471	2	9775	370		2	9423	365
						1956	2	10990	4.1	454	1	9210	377		1	9821	395
						1957	3	11893	3.9	460	1	8480	339		1	9766	380
						1958	3	11193	3.9	439							
						1959	6	12993	3.7	482	4	12415	477		5	12178	476
91856	9	17	12406	4.2	522	1953	2	13385	4.2	559	1	12070	488		1	9614	404
						1955	1	10880	4.0	431	1	12310	461		1	12263	513
						1956	2	10240	4.1	422	2	10635	477		2	10317	452
						1957	3	11797	4.1	482	2	12645	553		2	10846	462
						1958	3	12383	4.2	519	2	13500	551		2	11734	478
						1959	3	13373	4.1	526	3	12873	533		3	12793	519
						1960	3	13737	4.3	594	1	12970	476				
92099	1	1	13120	4.0	519	1960	1	13120	4.0	519							
94606	9	14	11026	4.2	465	1954	2	10830	4.3	469	1	11900	491		1	10420	434
						1955	1	8120	4.4	357							
						1956	3	12667	4.4	551	2	11035	456		1	12982	567
						1957	6	10856	4.2	456	4	11695	487		5	10761	424
						1958	2	8920	4.3	383	1	9900	410				
94773	6	10	10373	4.1	420	1953	1	8870	3.5	312	1	8970	329		1	7074	250
						1954	2	12015	3.9	468	1	15910	621		1	14037	576
						1955	1	14390	4.1	587	1	15240	617		1	13821	544
						1956	3	11673	4.1	482	2	12495	512		2	11511	476
						1957	2	9285	4.1	372	1	7730	331		1	8426	323
						1959	1	8580	4.6	411							
96330	2	5	9340	3.8	352	1956	1	12070	3.8	477	1	12050	492				
						1957	2	6655	3.7	247	2	7540	298		2	9766	380
						1958	1	11940	3.8	448	1	11540	462		1	11881	483
						1959	1	11510	3.9	446	1	11540	486		1	11718	465
99438	4	5	11058	4.2	458	1957	1	13080	4.3	559	1	10640	451		1	13244	532
						1959	3	9197	4.2	386	2	11205	470		2	11015	464
						1960	1	11560	3.7	424	1	12360	497				
100513	6	11	9855	4.3	425	1955	1	5900	4.2	246	1	10710	412		1	9930	373
						1956	2	9920	4.4	389	1	12720	504		2	11614	455
						1957	1	13160	4.4	576	1	12510	523		1	12524	518
						1958	1	11370	4.4	501	1	12210	519		1	12001	502
						1959	4	11358	4.1	471	2	13490	550		2	12230	504
						1960	2	9670	4.3	420	1	11670	489				
101807	2	4	12705	3.9	496	1958	2	14590	3.7	547	1	14320	564				
						1959	2	10820	4.1	445							
102187	1	3	7240	4.4	310	1958	2	8180	4.2	340	1	11760	425		1	10911	377
						1959	1	5360	4.7	250	1	13100	526		1	12808	497
104152	1	1	9760	4.2	406	1959	1	9760	4.2	406	1	12010	412		1	12808	497
106482	2	5	9912	4.2	412	1956	1	11690	3.7	437							
						1957	1	10270	4.6	469							
						1958	2	9250	4.2	392	1	11680	461		1	11173	464
						1960	1	8930	4.3	400	1	11830	491		1	11881	483
107291	1	1	2170	4.3	93	1960	1	2170	4.3	93							
107915	1	1	13000	4.1	527	1959	1	13000	4.1	527							
109954	2	3	14005	4.0	547	1959	3	15730	3.9	608	2	13340	533		1	9243	364
115881	1	1	9530	4.4	419	1959	1	9530	4.4	419							
120226	1	1	11840	4.2	500	1960	1	11840	4.2	500							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR													
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY			CONTEMP. AV.			YEARLY HERD AVERAGE		
											RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
M. SHORTHORN																			
23073	1	1	11510	3.6	412	1952	1	11510	3.6	412									
48787	1	1	8760	4.3	374	1960	1	8760	4.3	374	1	8120	307						
85509	1	1	7740	3.6	275	1953	1	7740	3.6	275	1	3110	308			1	5853 207		
170851	1	1	11120	3.5	394	1960	1	11120	3.5	394	1	6470	256			1	8971 343		

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
AYRSHIRE																	
59515	1	1	9880	4.2	419	1959	1	9880	4.2	419	1	10880	470				
66191	1	3	8040	4.2	343	1956	1	9280	4.3	402	1	9530	396		1	9418	374
						1957	1	7090	4.1	289	1	6630	281		1	9003	365
						1958	1	7750	4.3	337	1	7540	303		1	6758	279
72906	1	6	9393	3.7	350	1952	1	8270	4.0	333	1	10120	400				
						1953	1	12700	3.9	499	1	9490	380		1	9287	366
						1955	1	9630	3.5	336	1	9290	375		1	8818	353
						1956	1	8600	3.7	315	1	9340	395		1	9102	379
						1957	1	8760	3.6	313	1	8150	358		1	9657	410
						1958	1	8400	3.6	306	1	9460	399		1	8644	372
79374	1	1	12230	4.8	583	1959	1	12230	4.8	583	1	9240	382		1	9309	396
83165	4	6	7202	3.9	282	1953	1	8570	3.8	323	1	10550	453		1	9712	385
						1954	1	8950	4.2	374	1	8960	354		1	9657	382
						1955	2	5645	3.9	220							
						1956	1	8900	4.1	365	1	8440	356		1	9581	375
						1957	1	8990	4.0	358	1	7720	317		1	10072	409
84598	1	3	7613	4.0	305	1955	1	8360	4.0	338	1	8920	338				
						1957	2	7240	4.0	289	1	7500	270				
86779	14	22	7483	4.3	317	1954	1	8170	4.2	347	1	9460	375		1	9657	382
						1955	3	5837	4.2	244							
						1956	6	8698	4.1	357	4	8793	362		4	9581	375
						1957	8	7353	4.2	313	7	8174	330		7	10072	409
						1958	2	5870	4.4	252	2	10670	439		1	9134	365
						1959	2	9230	4.1	377	2	11470	397		2	11827	439
90323	2	3	8650	4.4	378	1956	1	9290	4.2	389	1	8860	338		1	9581	375
						1957	2	8205	4.4	358	2	9655	409		1	10072	409
92173	3	7	7242	4.1	295	1955	2	7520	4.2	303	1	7950	318		1	9156	366
						1956	1	6370	3.8	242	1	8960	383		1	9581	375
						1957	3	7850	4.0	314	2	7670	323		2	10072	409
						1958	1	5060	3.8	193							
92422	4	4	10845	4.2	457	1959	4	10845	4.2	457	3	10300	456		3	9999	433
94852	3	3	10100	4.3	432	1959	2	10885	4.3	461	2	10170	455		2	10344	451
						1960	1	8770	4.3	373	1	8640	338				
95368	7	12	7529	4.1	308	1954	3	7397	4.1	301	2	9070	361		3	9076	355
						1955	3	7615	4.1	311	3	10220	394		3	9156	366
						1956	3	7490	3.9	291	3	8810	362		3	9581	375
						1957	2	6896	4.2	291	2	7880	325		2	10072	409
						1960	1	9490	4.2	398	1	7910	346				
95443	1	3	9030	4.2	377	1957	1	9640	4.2	404	1	9020	382		1	9657	410
						1958	1	9400	4.2	394	1	13250	529				
						1959	1	8050	4.1	335	1	9400	392		1	9309	396
96526	6	9	8478	4.0	325	1955	2	10290	3.6	337	2	9455	372		1	9156	366
						1956	4	8390	4.3	370	3	8730	355		3	9581	375
						1957	2	6285	4.0	249	2	7515	312		2	9538	387
						1958	1	7220	4.3	308	1	9190	374		1	9134	365
99037	3	7	6033	4.1	248	1954	1	5420	3.9	212					1	7913	302
						1955	2	6335	4.3	271							
						1956	2	7135	4.2	304							
						1957	1	3980	4.7	186							
						1958	1	7120	3.7	265							
102855	2	2	6390	4.4	283	1958	1	6120	4.4	271							
						1959	1	6660	4.4	295	1	10360	393		1	11827	439
104768	2	2	10340	3.9	400	1960	2	10340	3.9	400	2	9925	350				
106696	1	1	7590	3.9	293	1960	1	7590	3.9	293	1	8390	372				
108670	2	2	8010	4.3	339	1957	1	8830	4.1	360	1	7590	317		1	10072	409
						1959	1	7190	4.4	317	1	9170	391		1	8960	376



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONT'LMP. AV.			YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
											RECORDS NO.	MILK LB.	FAT LB.			
JULIENSLY																
183294	5	14	8173	4.8	385	1947	11	8666	4.7	404						
						1948	2	9440	4.6	425						
						1949	1	7660	4.2	325						
189056	1	2	6605	4.1	271	1947	1	8300	4.1	343						
						1948	1	4910	4.0	198						
192431	4	5	5654	5.0	278	1947	3	6813	4.9	357						
						1948	2	4880	4.9	238						
199132	1	1	7720	4.7	365	1949	1	7720	4.7	365						
205591	7	19	8312	5.1	419	1947	13	8442	5.0	423	1	5500	415			
						1948	2	9800	5.0	495						
						1949	1	9130	5.5	503	1	10720	513			
						1950	1	8530	5.6	477	1	9140	464			
						1951	1	8080	5.5	444	1	8410	402			
						1952	1	8470	5.5	442	1	7500	381			
205924	1	2	8195	5.1	417	1947	2	8195	5.1	417						
214202	1	1	7090	4.4	311	1949	1	7090	4.4	311						
214348	15	35	7651	4.9	372	1947	22	7916	4.9	360						
						1948	3	11237	4.9	544						
						1949	2	9555	4.5	428						
						1950	3	11077	4.5	479	1	15370	493			
						1951	3	9870	4.7	461						
						1952	1	7780	4.7	366						
						1953	1	8560	4.5	365	1	9370	378	1	8960	346
219861	5	7	5957	5.3	312	1947	2	5915	5.0	296						
						1948	3	6477	5.2	355						
						1949	2	6450	5.7	362						
220600	1	1	8700	4.5	395	1951	1	8700	4.5	395						
226335	1	1	4720	5.3	246	1947	1	4720	5.3	248						
235626	4	9	8518	5.2	439	1949	1	7320	5.0	365						
						1950	1	8880	5.0	444						
						1951	2	10060	5.5	515	1	11790	531			
						1952	1	14240	5.5	749	1	11640	540			
						1953	1	12610	5.2	670	1	9300	446	1	10126	475
						1954	1	9990	5.1	509	1	9600	445	1	9559	458
						1955	1	10520	5.0	527	1	11080	525	1	9636	477
						1956	1	8690	5.0	430	1	8860	397	1	9178	434
236474	1	2	4795	4.7	231	1950	1	6490	5.1	353						
						1951	1	3100	4.2	129						
240902	31	64	8015	4.9	387	1947	10	7390	4.9	364						
						1948	10	8807	4.9	453						
						1949	11	8517	4.8	406	1	10040	446			
						1950	11	8234	4.8	391	1	10130	497			
						1951	9	8527	4.8	404	2	9420	469			
						1952	8	8765	4.5	397	2	8800	415			
						1953	4	9393	4.5	430	2	9065	423	2	8911	424
						1954	1	11500	4.9	568	1	9900	536	1	9416	457
243801	6	10	7660	5.1	386	1947	8	7833	5.1	395						
						1948	1	7760	5.4	418						
						1949	1	7090	4.6	325						
249215	1	1	6820	4.5	305	1950	1	6820	4.5	305						
252524	10	25	7462	4.8	355	1948	1	10120	4.4	446						
						1949	4	7755	4.8	367	1	10400	465			
						1950	6	8465	4.9	411	2	11050	509			
						1951	7	7120	4.1	345	2	9655	391			
						1952	5	8708	4.6	396	2	10045	415			
						1953	1	6640	4.5	306	1	8690	409	1	8415	398
						1954	1	7420	4.5	320	1	13230	466	1	11162	467
254462	1	3	8830	4.7	415	1947	2	8800	4.9	428						
						1951	1	8690	4.4	350						
254625	7	21	7448	5.3	395	1947	6	8055	5.4	431						
						1948	3	9760	5.6	550	1	11470	515			
						1949	3	9340	5.4	500	1	9050	412			
						1950	4	7165	5.1	371	1	10930	502			
						1951	3	7660	5.5	429	1	9550	435			
						1952	1	9110	5.1	467	1	9450	456			
						1953	1	8500	5.0	417	1	8680	395	1	8415	393
257582	12	33	8090	4.8	389	1949	3	9507	4.6	449	1	1210	387			
						1950	7	7487	4.8	361	2	7560	391			
						1951	9	7702	4.9	379	3	10367	438			
						1952	5	8648	5.2	449	1	13130	462			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AV. FAT LB.
GUERNSEY																
						1953	2	7960	4.4	344	2	10230	447	2	9167	406
						1954	2	8540	4.6	392	2	10820	452	1	11521	456
						1955	2	8195	4.4	360	2	10915	459	2	10072	436
						1957	1	6770	4.7	317	1	7930	364	1	7249	368
260741	13	35	8813	5.0	435	1949	4	9995	5.4	537						
						1950	5	8452	5.1	426	1	8450	382			
						1951	6	7763	5.0	391	4	8278	446			
						1952	4	6765	4.8	326	3	9320	435			
						1953	4	7935	5.0	398	3	10367	434	3	9669	430
						1954	5	8180	5.2	416	5	7928	361	2	8323	366
						1955	4	10118	4.7	469	3	8033	389	3	7863	355
						1956	2	10695	4.4	467	2	10760	500	2	9539	462
						1957	1	6120	5.2	320	1	6230	299	1	8502	398
263640	1	1	5840	5.9	342	1954	1	5840	5.9	342						
264489	1	1	8970	4.9	438	1951	1	8970	4.9	438						
273331	3	4	10653	4.6	493	1952	1	8600	4.1	354	1	11660	452			
						1953	3	10617	4.7	497	2	9690	421	2	10677	455
276283	1	1	10610	5.0	527	1947	1	10610	5.0	527						
277922	1	2	7035	5.3	369	1949	1	7870	5.3	414						
						1950	1	6200	5.2	324						
278954	1	1	11380	4.9	558	1953	1	11380	4.9	558						
279696	22	49	8477	4.8	402	1947	2	7720	5.2	392						
						1948	6	8593	4.9	424	2	10100	490			
						1949	8	8703	4.9	423	3	8957	416			
						1950	8	9070	4.7	422	3	8843	431			
						1951	7	7984	4.7	374	2	9450	427			
						1952	6	7960	4.7	370	2	7875	371			
						1953	3	8317	4.8	398	2	8785	390	2	8350	392
						1954	4	6383	4.6	292	4	7770	375	3	7521	370
						1955	1	8350	4.7	392	1	9700	452	1	8110	401
						1956	2	7920	4.8	374	1	7670	374	2	8644	403
						1957	1	8070	4.2	339	1	7966	374	1	7379	342
						1958	1	10800	4.5	469	1	9290	465	1	8949	427
279854	1	1	6370	4.7	296	1953	1	6370	4.7	296						
281475	14	25	7174	4.9	354	1947	5	6462	5.1	330						
						1948	8	7051	5.1	358						
						1949	6	8033	4.9	396						
						1950	5	7838	4.9	387						
						1951	1	8960	5.3	478						
283091	3	9	7906	4.4	350	1954	1	4590	4.1	188	1	6700	242			
						1955	1	5430	3.8	209	1	7720	318	1	6366	247
						1958	3	8343	5.1	422	1	9250	445	1	9756	497
						1959	4	9683	4.5	438	2	9410	468			
283808	6	23	8439	5.0	421	1953	2	8465	4.8	401	1	10620	473	2	9576	434
						1954	5	8588	5.0	432	5	8560	398	4	8813	416
						1955	2	7175	5.3	377	2	8710	399	2	9352	418
						1956	5	9456	5.2	491	5	8918	413	3	7902	359
						1957	4	8245	5.0	415	3	8840	419	2	8606	420
						1958	4	7940	5.1	402	4	11563	495	1	9756	497
						1959	1	11400	5.3	609	1	9360	448			
287057	3	9	7976	5.0	399	1947	1	7230	5.3	386						
						1948	1	10930	5.7	621	1	8880	452			
						1949	1	10030	5.3	536	1	9180	464			
						1952	3	8013	5.0	406	2	6590	336			
						1953	3	7070	4.7	332	2	7305	365	2	7249	356
289661	9	13	8514	4.4	370	1947	9	8540	4.5	380						
						1948	2	9450	3.8	358						
						1949	1	10220	4.6	467						
						1950	1	10270	4.1	426						
290518	2	2	7155	4.8	333	1949	2	7155	4.8	333						
292015	6	22	8919	5.2	466	1947	4	9078	4.9	449						
						1948	5	9156	5.2	478	1	10210	502			
						1949	6	8555	5.4	462	1	8370	392			
						1950	2	8160	5.0	404	1	8490	399			
						1951	3	8077	4.8	390	1	8630	377			
						1952	1	8050	4.9	396	1	6510	312			
						1954	1	9200	5.0	457	1	7750	352	1	6878	356
293593	3	14	10041	4.7	465	1949	1	14990	4.3	640	1	10710	532			
						1950	1	10000	4.5	453	1	10700	614			
						1951	2	10490	4.7	489	1	7460	382			
						1952	2	9055	4.9	439	1	8880	432			
						1953	2	9185	4.6	414	2	8425	394	2	8971	440
						1954	3	10567	4.5	465	3	9193	445	3	8564	419
						1955	1	9950	4.6	454	1	9150	432	1	9156	422
						1956	1	10210	4.0	409	1	8740	422	1	8622	421

TABLE 15.--DAUGHTER-AVERAGE OF SIZES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.						
GUERNSEY																						
						1957	1	8870	4.6	359		1	7800	379	1	8785	410					
295895	1	2	6725	4.7	317	1947	1	8100	4.7	363												
						1948	1	5350	4.7	251												
296007	1	3	6770	5.4	366	1955	1	5680	5.3	302	1	7720	394		1	8001	393					
						1956	1	7730	5.6	430		1	8060	410		1	8742	413				
						1957	1	6900	5.3	365	1	8750	407		1	8644	425					
297876	2	6	6615	5.1	336	1951	1	7450	5.1	378												
						1953	2	7015	5.1	359												
						1954	1	6720	4.9	331	1	9240	371		1	7957	360					
						1955	2	6390	4.9	312	1	8660	422		1	7892	367					
302675	2	2	8465	4.6	395	1950	1	10750	4.9	522												
						1957	1	6180	4.3	267	1	10760	540		1	8404	414					
303522	2	3	7095	5.0	355	1955	1	7300	4.9	359	1	9520	410		1	10656	447					
						1956	1	7300	4.9	356		1	11260	538								
						1957	1	6480	5.3	342	1	10970	512		1	9570	451					
304086	1	4	9105	4.4	397	1950	1	8730	4.5	389	1	9680	409									
						1951	1	7690	4.4	336		1	10160	461								
						1952	1	8590	4.5	370		1	10030	452								
						1954	1	11400	4.5	492	1	11000	495	1	7837	350						
307811	1	1	5540	5.6	309	1955	1	5540	5.6	309	1	8040	335		1	8884	359					
308518	16	24	7937	4.7 <sup>1</sup>	375	1950	1	7980	4.7	374												
						1951	5	7524	5.0	378												
						1952	7	6876	5.1	345	2	7555	358									
						1953	2	8520	4.5	385	1	8120	347		2	9260	413					
						1954	3	8783	4.4	387	3	8473	357		3	8520	360					
						1955	2	7275	4.5	324	2	10445	476		2	8753	395					
						1956	1	9830	4.4	434	1	7840	423									
						1958	1	9820	4.5	418	1	6540	340		1	7772	371					
						1959	1	8630	4.5	392	1	8430	380									
						1960	1	8240	4.7	387	1	11420	447									
						311574	7	11	7876	4.4	344	1952	2	8340	4.4	360	1	8860	407			
												1953	3	7423	4.5	335	1	8610	392		1	8153
1954	1	6340	4.7	300	1							7990	354									
1955	1	9200	3.8	350	1							11250	474									
1956	3	8737	4.2	364	3							9053	375		2	9558	364					
1957	1	8060	4.9	395	1							9470	471		1	9570	451					
311775	11	22	8825	5.0	444							1951	3	8567	5.1	440	1	10530	551			
												1952	4	9450	4.9	461	1	9380	450			
						1953	4	9210	5.4	488	3	8900	441		2	10154	498					
						1954	2	8995	5.7	515	2	9325	466		2	9080	450					
						1956	6	8333	5.1	421	2	10420	558		2	9642	500					
						1957	2	7405	4.8	347	1	7320	395		1	9625	500					
						1958	1	8250	4.5	358												
						314163	4	4	8713	5.3	456	1951	2	7595	5.3	400						
1952	2	9830	5.2	512																		
316411	1	2	9470	4.4	416	1950	1	10510	4.5	449												
						1951	1	8430	4.5	383												
317477	14	22	8452	4.9	411	1953	2	10790	4.5	466	2	9790	482		1	9668	440					
						1954	9	9396	4.9	465	9	9718	425		8	9773	439					
						1955	5	7014	4.9	343	5	10238	465		5	9906	440					
						1956	1	5570	4.9	275	1	9040	360		1	10987	452					
						1957	2	6590	5.1	330	2	10965	457		2	8268	362					
						1959	2	8445	5.0	416	2	8360	401									
						1960	1	6990	5.1	355	1	6640	310		1	7837	374					
						318218	28	56	8281	4.9	404	1951	6	9348	4.7	439	2	8550	385			
1952	9	8573	5.0	425	3							8697	455									
1953	10	8536	5.2	434	5							10244	477		5	10292	470					
1954	8	8660	4.6	415	7							9799	447		6	10079	467					
1955	9	8182	4.7	381	7							10040	459		4	9674	432					
1956	8	7630	4.7	355	6							9453	425		6	8602	372					
1957	4	8330	4.7	386	3							7997	376		3	8644	467					
1958	1	9330	5.2	481																		
1959	1	12010	4.4	525	1							10780	469									
318308	1	1	6710	4.0	271							1952	1	6710	4.0	271						
319209	11	45	8672	4.7	405							1949	3	10863	4.6	497	3	11190	563			
												1950	2	8260	5.2	429	2	7670	429			
						1951	5	8332	4.9	406	5	9138	464									
						1952	9	8893	4.6	422	8	7855	379									
						1953	8	8864	4.7	418	8	8493	420		8	8707	434					
						1954	7	8543	4.6	388	7	7930	384		7	8051	359					
						1955	6	7678	4.8	362	6	8572	422		6	8902	446					
						1956	3	9110	4.5	411	3	8627	416		3	8622	421					
						1957	2	8485	4.7	396	2	8055	385		2	8785	410					
319210	3	13	8794	4.8	425	1954	2	10225	4.8	492	2	9150	435		2	9941	447					
						1955	1	9540	4.2	399	1	9430	357		1	10856	447					
						1956	3	8397	4.9	406	3	8567	417		3	9094	423					
						1957	2	8715	4.7	406	1	8830	402		1	8175	409					
						1958	4	8438	4.9	408	4	9878	458		3	9356	470					
						1960	1	7230	4.9	354	1	8150	389		1	8653	435					
						319654	6	12	7922	4.8	375	1953	2	9810	4.6	447	1	10510	469		1	10224

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	305-DAY RECORDS NO.	CONTEMP. MILK LBS.	AV. FAT LBS.	YEARLY RECORDS NO.	HERD AVERAGE MILK LBS.	FAT LBS.
GUERNSEY																
						1954	1	10920	4.7	509	1	9390	425	1	10301	438
						1955	2	8525	5.1	418	2	8760	401	2	9668	426
						1956	3	7510	5.0	368	2	10655	471	2	9554	432
						1957	1	8280	4.7	392						
						1958	1	7010	4.5	315						
						1959	2	7345	4.8	347	1	9510	456			
321462	9	22	7822	5.2	408	1950	1	8550	5.1	437						
						1951	2	7905	4.9	360						
						1952	1	6480	5.4	348						
						1953	2	8480	5.0	421		7400	310		5592	252
						1954	4	7528	5.4	407	4	8723	435	4	8701	446
						1955	2	6965	5.9	405	2	8595	433	2	8387	418
						1956	4	7885	5.5	425	4	9323	452	3	9095	461
						1957	3	7863	5.4	420	3	9003	466	3	8901	451
						1958	2	8350	5.7	479	1	8470	438	1	8644	450
						1959	1	8476	5.5	468	1	8820	407	1	8317	420
321668	1	3	5600	4.9	280	1955	1	8250	5.2	430	1	7410	294	1	6366	247
						1956	1	4470	5.0	225	1	6600	281	1	7576	302
						1957	1	4080	4.6	186	1	7690	311	1	6366	263
323083	52	123	8966	4.7	424	1952	4	9680	4.6	446	2	10985	496			
						1953	15	9996	4.6	481	13	9126	439	11	9235	432
						1954	26	9143	4.7	430	25	8867	428	23	9229	447
						1955	28	9398	4.7	445	26	9520	449	22	9827	467
						1956	17	9872	4.8	471	14	9726	465	16	9238	434
						1957	14	8354	4.9	399	13	9400	462	13	9050	441
						1958	6	9157	4.6	417	6	9788	455	5	9378	454
						1959	10	9166	4.9	451	9	9366	466	2	9347	463
						1960	3	9113	4.9	446	3	7733	388	2	9320	407
323554	43	72	7919	4.5	360	1952	2	8180	5.0	405	2	8195	406			
						1953	8	8598	4.7	400	7	9283	423	4	8385	380
						1954	13	8402	4.5	383	12	8857	405	11	8561	401
						1955	19	7759	4.4	344	19	8578	392	17	8791	401
						1956	13	8675	4.6	401	11	9545	425	7	8832	400
						1957	10	8168	4.7	364	9	10137	478	9	8438	400
						1958	4	6508	4.4	289	3	9513	394	1	9636	398
						1959	2	8900	4.4	387	2	10705	441			
						1960	1	8030	3.7	297	1	9590	408			
324861	29	58	8216	4.6	375	1951	2	7225	4.4	315						
						1952	4	8663	4.5	385	2	8395	397			
						1953	10	7836	4.7	358	9	7232	338	9	7353	351
						1954	7	8429	4.5	381	7	8626	392	7	8885	419
						1955	12	9400	4.5	423	12	9474	440	11	9213	454
						1956	8	8825	4.7	413	8	10419	483	7	9209	424
						1957	7	8949	4.8	427	7	10446	514	7	9983	488
						1958	4	6633	4.6	314	4	9400	415	3	8705	401
						1959	3	9373	4.4	417	3	8787	412	3	9229	440
						1960	1	10680	5.1	542	1	9010	442			
324930	1	1	7010	4.6	323	1959	1	7010	4.6	323	1	9550	461	1	8982	427
327931	1	7	7563	5.0	378	1953	2	8460	5.2	437	1	8470	424	2	7881	364
						1955	1	8280	5.1	420				1	8055	393
						1957	1	7610	4.9	375				1	7303	352
						1959	1	7906	4.9	385		8220	386	1	8720	409
						1959	1	6670	4.7	324	1	8670	378	1	7979	373
						1960	1	5560	4.6	268	1	8630	400			
330198	1	1	9530	3.9	376	1952	1	9530	3.9	376						
331352	1	3	6773	4.7	318	1954	1	5180	4.7	243	1	7550	374	1	8655	386
						1955	1	7210	4.9	354	1	9360	445	1	8622	367
						1958	1	7930	4.5	357	1	12090	496			
331955	2	5	10164	4.6	464	1952	1	9140	4.9	451	1	8730	424			
						1953	1	9190	5.1	466	1	8490	413	1	9211	445
						1954	2	10190	4.5	456	2	8240	385	2	8410	404
						1955	1	7170	4.6	327	1	9460	446	1	9156	422
333200	6	15	8126	5.1	422	1954	2	9110	4.9	451	2	11280	455			
						1955	4	8123	5.1	414	4	9413	408	3	8568	355
						1956	2	5575	4.5	255	2	9175	356	2	9549	367
						1957	2	6655	4.7	420	2	9035	396	2	7968	357
						1958	4	9255	5.9	543	2	10665	469	2	9756	497
						1959	1	9530	5.4	515	1	9420	450			
334545	3	9	7355	4.8	352	1953	2	8955	4.8	427	2	8055	390	2	7695	372
						1954	3	7250	5.0	362	2	8180	387	2	8399	406
						1955	1	9350	4.5	417	1	9060	427	1	8960	415
						1956	1	9510	4.9	465	1	7340	362	1	6387	310
						1958	1	8850	4.8	421	1	13500	527			
						1959	1	6030	4.4	263	1	5190	238			
335822	12	29	8049	4.7	373	1950	2	8120	5.3	426						
						1951	4	7970	4.7	370	2	9925	493			
						1952	7	7944	4.7	375	3	9343	439			
						1953	6	8588	4.7	398	4	9663	478	4	9137	440
						1954	5	9566	4.5	429	5	7666	462	5	9387	454
						1955	2	8935	4.7	418	2	8210	409	2	8857	440

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
						GULFSEY										
						1956	2	7665	4.5	338	2	8630	415	2	8622	415
						1958	1	8700	4.7	409	1	9910	500	1	8927	422
335823	1	1	9390	5.1	474	1954	1	9390	5.1	474	1	10980	510	1	9178	421
336257	1	6	6885	4.8	333	1952	2	7500	5.3	393						
						1953	1	6460	4.8	310						
						1955	1	6630	4.8	319	1	4670	266			
						1956	1	5790	4.5	262	1	7190	413			
						1957	1	7430	4.5	322	1	6240	324			
338467	4	4	6440	4.8	308	1954	2	5165	4.8	248	1	10330	550	1	11881	434
						1956	1	7340	4.7	348	1	8530	412	1	8175	407
						1959	1	8090	4.8	390	1	6200	313			
340809	1	2	14425	4.7	673	1959	2	14425	4.7	673	1	10820	525	1	11914	588
343683	1	1	7030	5.5	384	1952	1	7030	5.5	384						
346065	16	32	6896	4.7	323	1952	1	3390	4.6	157	1	7250	381			
						1953	5	7250	4.7	336	3	8540	415			
						1954	8	6669	5.0	330	7	8511	393	2	8851	415
						1955	7	6556	4.5	296	7	8939	402	7	8740	409
						1956	6	7918	4.5	355	5	10016	429	7	8694	382
						1957	3	8450	4.5	378	3	9297	431	4	9573	410
						1958	2	6280	4.4	273	2	9030	416	3	8706	400
														2	9402	453
346295	1	1	4240	5.2	219	1954	1	4240	5.2	219						
349272	4	10	8448	4.6	382	1953	2	9755	4.6	445						
						1954	2	8290	4.5	367	1	9760	471	1	8219	375
						1955	2	9130	4.9	441	2	10055	416	1	9766	436
						1956	1	7360	3.6	282	1	9580	370	1	11140	465
						1957	1	8840	4.2	369	1	9580	474	1	8960	421
						1958	1	8410	4.4	372	1	12080	496			
						1959	1	5900	4.4	262	1	6740	309			
349633	1	4	6643	5.7	376	1951	1	6930	5.6	390	1	7760	401			
						1952	1	5150	6.1	316	1	7270	369			
						1953	1	7070	5.6	395	1	7750	397	1	7238	351
						1954	1	7420	5.4	403	1	7290	352	1	7728	392
349653	86	212	8694	4.6	398	1949	1	7920	5.5	433						
						1950	7	8323	4.7	386	3	10353	426			
						1951	14	8031	4.8	364	5	9030	385			
						1952	27	8282	4.7	364	17	8546	404			
						1953	29	9446	4.7	445	25	9027	437			
						1954	39	9037	4.5	406	37	9173	429	24	8963	423
						1955	30	9361	4.4	416	28	10241	471	32	9037	429
						1956	26	9195	4.7	428	24	10237	473	24	10072	459
						1957	19	8837	4.6	408	18	9483	461	23	9542	440
						1958	10	9045	4.5	405	9	9199	442	18	9161	458
						1959	9	10747	4.6	485	9	10336	492	9	9641	466
						1960	1	10290	4.6	469	1	10450	512	6	10283	496
														1	9494	473
350370	96	243	8101	4.9	395	1949	1	7760	5.0	391						
						1950	13	7772	4.8	371	1	9190	487			
						1951	15	8349	5.1	423	2	8800	434			
						1952	30	8312	4.9	401	20	9076	411			
						1953	39	8458	5.0	417	30	9315	425			
						1954	45	8385	4.9	412	38	9142	421	22	9029	417
						1955	28	9048	4.9	440	25	9491	446	32	8759	412
						1956	30	8454	4.8	406	24	9185	442	22	9355	441
						1957	20	8098	4.8	386	15	8679	418	23	8859	420
						1958	12	8019	4.8	379	9	9057	437	14	8602	417
						1959	9	8369	4.5	376	8	8670	413	7	8376	414
						1960	1	9480	4.8	451	1	10280	538	6	9314	455
350867	2	2	10130	4.8	483	1953	1	9910	5.0	500	1	9260	464	1	8927	410
						1954	1	10350	4.5	466	1	8740	410	1	9494	441
351118	1	2	7685	4.3	329	1955	1	8820	4.2	373	1	9350	408	1	10856	447
						1956	1	6550	4.5	285	1	11780	522	1	10933	456
352592	2	5	7284	5.1	373	1951	2	7225	5.0	360	1	14530	519			
						1952	1	8770	4.3	380	1	10490	368			
						1953	1	5790	5.1	296	1	9650	385	1	8960	346
						1956	1	7490	5.9	442						
353680	8	23	7244	4.9	351	1950	5	7946	4.9	392						
						1951	3	7531	4.9	368	3	8243	406			
						1952	3	6047	5.1	305	1	8140	386			
						1953	2	7045	4.7	327	1	8270	384	1	9178	426
						1954	2	6835	4.5	308	2	7910	403	2	7723	355
						1955	2	7570	4.3	328	2	8400	412	2	8044	376
						1956	1	9640	4.3	416	1	10400	435	1	8862	414
353771	3	17	9040	5.0	445	1950	2	8430	5.3	443	1	11630	572			
						1951	3	8693	4.9	426	1	10790	575			
						1952	2	10915	4.9	525	2	9130	495			
						1953	2	10890	5.0	535	1	10640	576	2	9625	506
						1954	1	9650	5.1	490	1	12090	641	1	10355	543
						1955	2	12380	5.0	608	2	11385	574	2	10742	550
						1956	2	10625	4.9	516	2	11010	536	2	10884	556
						1957	2	10580	4.7	494	2	11035	524	2	10513	529
						1958	1	10560	4.4	464	1	10570	442	1	10791	487



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GULBURN																
354073	8	21	8650	4.8	412	1953	3	8377	4.5	377	2	8420	370	1	8393	355
						1954	2	9315	5.3	476	1	9470	364	1	8851	339
						1955	4	8180	5.1	417	4	9515	426	4	8102	365
						1956	3	7163	4.9	345	2	9810	483	2	8595	414
						1957	2	9180	5.2	478	2	10560	507	2	8306	401
						1958	2	9110	5.2	470	2	10915	486	1	8873	455
						1959	3	10603	4.4	463	1	9110	442			
						1960	2	9735	5.1	483	2	9575	474	1	9494	473
354147	1	1	9410	4.5	419	1958	1	7410	4.5	419	1	9160	457			
354224	22	59	7955	4.6	363	1952	2	8680	4.2	371	1	7410	366			
						1953	7	9519	4.6	389	5	7756	367	4	7949	382
						1954	11	8489	4.9	411	11	8464	409	10	8703	425
						1955	10	8640	4.8	408	10	9545	444	9	9074	453
						1956	9	7776	4.4	341	8	9265	436	7	8729	421
						1957	6	9308	4.7	436	6	9533	482	6	9262	457
						1958	6	8850	4.3	384	6	9672	444	5	9161	446
						1959	7	8736	4.2	364	3	8917	419	1	7804	376
1960	1	10750	4.0	432	1	10560	515	1	9494	473						
354977	3	7	9519	4.4	422	1952	1	7230	4.6	333	1	9930	466			
						1953	1	10220	4.2	426	1	10540	476	1	10224	458
						1954	1	10600	4.4	469	1	10420	439	1	10301	458
						1956	2	9490	4.5	425	1	10560	490			
						1957	1	8940	4.5	404	1	9410	471	1	9570	451
						1958	1	10480	4.5	467	1	9170	443	1	9756	497
356455	1	1	7790	4.8	372	1956	1	7790	4.8	372	1	8940	398	1	9211	465
357515	40	79	8366	4.5	375	1949	2	7885	4.5	354	1	8310	402			
						1950	5	8916	4.5	399						
						1951	10	8282	4.5	367	3	7873	372			
						1952	13	8349	4.6	365	5	8216	395			
						1953	10	8116	4.4	358	10	8359	404	10	8303	397
						1954	12	8113	4.7	376	12	8559	420	10	8405	414
						1955	12	8918	4.6	413	11	9040	414	11	9257	421
						1956	7	7366	4.4	324	5	9150	434	6	8784	409
						1957	5	8204	4.6	368	4	11015	501	4	10322	458
						1958	2	8135	4.5	356	2	7275	322	2	8317	367
						1960	1	9460	4.2	395	1	9170	468	1	9320	487
362470	13	26	7804	5.1	404	1953	4	7736	5.4	411	2	7890	399	2	8344	412
						1954	6	7777	5.0	390	6	8965	436	5	8681	415
						1955	3	8233	5.3	431	2	9850	439	1	8360	405
						1956	4	8380	4.9	411	4	10548	493	3	8764	419
						1957	3	8897	4.8	428	3	8920	432	2	8786	426
						1958	3	9307	5.0	463	3	10057	457	2	8911	428
						1959	2	6950	4.2	426	2	9540	443	1	9548	457
						1960	1	8030	5.4	437	1	8970	459			
362809	7	19	8314	4.7	383	1951	2	7940	4.8	378	1	8550	446			
						1952	4	8565	4.7	396	3	9040	416			
						1953	3	7590	5.1	383	3	7667	385	3	8397	396
						1954	4	8953	4.7	419	4	8290	443	4	8712	419
						1955	3	8837	4.5	397	3	8563	398	3	8702	418
						1956	2	10475	4.3	451	2	9400	434	2	8491	394
						1958	1	7070	3.9	273	1	8960	393	1	9014	399
362814	1	1	7260	5.9	426	1956	1	7260	5.9	426	1	8210	379			
363701	45	101	8776	4.7	412	1950	5	9714	4.8	465	1	8230	418			
						1951	11	8126	4.7	382	1	8770	426			
						1952	17	8796	4.8	417	8	9599	451			
						1953	23	8449	4.8	404	20	8665	405	16	8649	408
						1954	14	9385	4.6	425	14	9054	414	13	9229	431
						1955	13	9442	4.5	424	12	9127	441	8	9111	432
						1956	9	8896	4.7	413	9	9228	427	6	8804	430
						1957	4	9065	4.5	407	3	8573	392	3	9592	423
						1958	1	12330	4.1	512	1	10060	436			
						1959	2	8835	4.5	401	2	10280	417			
1960	2	7845	4.7	363	2	6785	309	1	8404	380						
364453	1	2	6800	4.8	326	1950	1	6960	4.7	329						
						1951	1	6640	4.8	322						
365001	3	5	8602	4.7	409	1955	1	7180	4.7	340	1	6460	269	1	6366	247
						1956	3	8563	4.7	406	2	10440	391	2	9391	363
						1957	1	6630	4.8	317	1	8250	366	1	6366	263
366648	6	14	7981	4.6	369	1953	1	5940	5.2	307						
						1954	2	7790	4.8	372	1	9620	442	1	8971	419
						1955	1	10090	4.9	497	1	10570	503	1	10551	501
						1956	1	7200	5.0	359						
						1957	1	6810	5.0	359						
						1958	4	7846	4.3	333	1	9240	449	1	9756	497
						1959	4	7748	4.2	321	2	9700	483			

TABLE 15.--DAUGHTER-AVERAGE OF Sires in Service in Artificial Breeding Organizations--Grouped by BLEO,  
by Year of Freshening--Records from this State Only

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
GULRNSEY																	
367978	3	3	10320	4.5	481	1954	1	8680	4.8	413							
						1957	1	10960	4.6	503							
						1960	1	12820	4.1	528	1	11830	468		1	11761	482
											1	11080	382		1	11718	411
370225	13	32	10672	5.1	541	1954	5	10178	5.2	528	5	13882	738		5	10355	543
						1955	10	11176	5.1	569	10	10203	604		10	10322	558
						1956	4	11065	5.4	590	3	11403	614		3	10791	569
						1957	6	11242	5.0	561	4	10913	579		4	10453	536
						1958	4	10620	5.0	528	4	10393	543		4	9625	497
						1959	3	9040	5.1	459	2	9495	522		2	9625	527
371803	30	57	8483	5.1	425	1954	12	8533	4.9	414	12	9185	422		12	8944	397
						1955	16	8468	5.2	435	16	9311	427		15	9035	421
						1956	11	8046	5.1	411	10	9415	424		9	8831	399
						1957	8	7931	5.1	400	8	9888	419		8	9084	391
						1958	5	9264	5.0	460	2	9690	438		1	8720	424
						1959	2	9035	5.2	451	2	8570	381				
						1960	3	9973	4.9	492	3	9547	417		1	8317	375
375262	1	1	5980	4.4	261	1954	1	5980	4.4	261	1	8690	390				
375476	19	45	7962	4.9	388	1952	1	8770	4.9	431							
						1953	6	9517	4.7	457	4	8105	408		3	8190	400
						1954	6	8403	4.9	408	6	8545	394		3	8094	436
						1955	8	7883	5.0	389	8	8238	408		5	8836	426
						1956	6	7250	4.9	352	5	8338	409		4	8633	407
						1957	9	7196	4.9	349	6	8633	418		6	8508	410
						1958	3	6433	4.6	302	1	12180	501				
						1959	5	8630	5.0	433	2	8775	420		1	8731	433
						1960	1	7470	4.8	356							
375812	43	91	9225	4.7	430	1952	6	9187	4.6	416		2	7735	357			
						1953	7	9286	4.8	444	6	8645	433		4	8665	417
						1954	14	9224	4.8	444	13	8677	416		9	8381	399
						1955	23	9685	4.7	454	22	9715	442		19	9611	441
						1956	16	9860	4.7	461	16	10958	491		16	9878	450
						1957	16	8641	4.7	408	12	10304	489		14	9565	455
						1958	5	7976	4.5	361	4	11265	514		3	9381	458
						1959	3	10057	4.7	459	2	9175	410		2	8944	406
						1960	1	8170	4.5	372	1	8890	420				
375956	4	5	6236	4.7	288	1955	1	9590	4.8	460	1	11330	573		1	7521	379
						1956	1	7060	4.0	279	1	11610	421		1	11521	432
						1957	1	5360	5.5	276	1	8580	370		1	7979	370
						1958	1	4220	4.5	188	1	7560	301		1	6911	292
						1959	1	2790	5.5	154							
382589	16	45	7498	4.7	347	1949	2	5580	4.9	274							
						1950	10	8696	4.7	406	2	8310	437				
						1951	10	7658	4.6	350	3	8347	432				
						1952	9	8810	4.6	410	3	9520	389				
						1953	5	7748	4.8	375	4	9410	432		3	7874	384
						1954	2	8045	4.9	389	2	9795	426		1	8197	408
						1955	2	10655	4.8	507	2	8740	431		2	8873	444
						1956	2	10990	4.4	480	2	9555	447		2	8486	405
						1957	1	10520	4.7	492	1	9640	447		1	8785	410
						1958	2	10240	4.6	464	2	8905	445		2	9238	469
386975	3	6	8565	4.7	404	1956	2	7810	4.8	373	2	11175	597		2	11102	410
						1957	1	11080	4.6	507	1	14440	571		1	13396	529
						1958	1	11020	4.7	514	1	12290	414				
						1959	1	9470	4.6	432	1	14350	602		1	13603	547
						1960	1	8730	4.7	407	1	13400	548				
389518	1	2	5650	4.7	263	1957	1	5290	4.9	260	1	10560	506		1	8273	362
						1958	1	6010	4.4	266	1	12140	499				
390158	14	44	7994	4.8	382	1951	3	8430	4.9	407	1	5630	297				
						1952	5	7782	4.9	385	2	8020	400				
						1953	7	7849	4.9	384	4	7518	376		5	7672	372
						1954	8	7823	4.9	382	7	9699	483		7	7928	396
						1955	6	8555	4.7	405	4	9685	475		4	8884	445
						1956	5	8834	4.8	428	4	8090	411		4	9276	458
						1957	3	7880	5.0	392	2	9800	485		2	8240	402
						1958	4	7748	4.9	378	3	10457	470		2	9123	460
						1959	2	10785	4.9	520	2	9770	465				
						1960	1	9120	4.8	441	1	8080	429		1	9919	476
392288	3	6	8507	5.2	442	1953	1	7370	5.4	397	1	8260	385		1	9167	429
						1957	1	7830	5.4	424	1	10180	472		1	7695	359
						1958	2	9540	5.2	496	2	10005	468		1	8476	392
						1959	1	9510	5.3	502	1	9500	468				
						1960	1	8800	4.7	412	1	9350	435		1	9799	469
397313	1	1	7540	4.9	366	1954	1	7540	4.9	366	1	8750	396				
400723	19	37	8139	4.7	384	1951	3	8320	5.0	418	1	8100	399				
						1952	6	8402	4.7	396	3	8760	420				
						1953	6	8090	4.9	399	6	8732	413		6	8488	407
						1954	5	9204	4.6	424	5	8816	419		5	8847	426
						1955	12	8468	4.6	394	12	8263	388		11	8777	413
						1956	3	7697	4.9	378	3	8527	396		3	8190	409
						1957	1	8900	4.5	401							

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUP 0 BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP.					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.		RECORDS NO.	MILK LB.	FAT LB.	AV. NO.	YEARLY HERD AVERAGE	FAT LB.
						1958											
							GULFSEY										
							1	9410	3.9	367						1	10142 419
401055	1	1	16750	4.6	777	1960	1	16750	4.6	777		1	9440	589			
403636	3	3	8843	5.4	478	1955	1	6920	5.2	362		1	11350	486		1	10606 470
						1956	1	8200	6.1	500		1	12900	546			
						1958	1	11410	5.0	571		1	8770	423		1	9156 448
404005	3	3	7003	4.5	314	1956	1	4420	5.1	223		1	7360	322		1	7576 302
						1957	1	7436	3.5	262		1	7130	298		1	6366 263
						1958	1	9166	5.0	458		1	8530	450		1	8873 435
407865	1	3	9340	4.7	444	1955	1	11430	5.1	584		1	9640	467			
						1957	1	9480	4.5	429		1	10310	472		1	8099 391
						1958	1	7110	4.5	319		1	12730	516			
408568	3	8	7385	4.9	358	1956	2	5710	5.1	284		2	8280	397		2	7608 372
						1957	3	7630	4.9	374		3	7893	398		3	7249 352
						1958	2	8075	4.7	379		2	12200	499			
						1959	1	6760	4.8	322		1	6870	356		1	7292 356
409032	42	101	8391	4.7	396	1952	1	7510	5.0	375		1	7510	358			
						1953	7	7646	4.7	356		6	6305	411		6	8638 435
						1954	15	9413	4.7	440		14	8750	422		13	8410 414
						1955	17	8739	4.7	407		16	9196	433		13	9063 437
						1956	20	7048	4.9	437		17	9887	466		15	9329 440
						1957	16	8209	4.9	398		13	9214	433		12	9162 435
						1958	14	7878	4.7	372		10	8471	400		9	8283 372
						1959	8	8854	4.5	405		5	8476	374		1	8578 406
						1960	3	11286	4.5	515		2	10250	478		2	9598 463
409846	1	1	6170	5.0	311	1957	1	6170	5.0	311		1	8320	367		1	6366 263
410890	3	10	8550	4.5	382	1952	2	8920	4.8	430		2	8935	446			
						1953	1	8490	4.0	340		1	8070	394		1	9167 429
						1954	3	8317	4.4	364		3	8903	425		3	8742 421
						1955	3	8997	4.4	399		3	9940	464		3	9276 442
						1956	1	6450	4.7	305		1	7990	388		1	9341 414
411943	13	16	7758	4.7	365	1955	5	6604	4.6	301		5	7054	345		5	7308 344
						1956	5	9168	4.7	425		4	9438	443		5	9513 445
						1957	4	8675	4.6	400		4	9285	456		4	9377 447
						1958	1	8330	5.3	440		1	9640	461		1	9581 479
						1960	1	8650	4.2	360		1	12070	441			
411967	19	35	8164	4.7	386	1952	2	7785	4.9	385							
						1953	3	8517	4.8	408		3	8657	382		2	7609 368
						1954	8	8189	4.7	387		5	9454	449		1	8426 400
						1955	7	8781	4.6	404		7	9046	426		4	8998 427
						1956	7	8501	4.6	410		6	11445	514		6	10272 467
						1957	3	8437	4.6	391		2	12925	546		2	11489 490
						1958	2	10350	4.5	463		2	12110	537		1	10856 526
						1959	3	7927	4.3	344		3	9587	445		2	10323 511
415836	5	14	9149	5.2	475	1952	1	9910	5.2	514		1	8260	398			
						1953	4	9265	5.3	489		4	8713	422		4	9227 451
						1954	4	9298	5.3	487		3	8520	401		3	8902 439
						1955	2	7455	5.1	375		2	8295	384		2	8835 430
						1956	2	7485	4.9	368		2	7505	372		2	8028 371
						1957	1	6020	4.7	284		1	5350	276		1	8927 432
416886	34	68	8003	4.8	382	1951	4	8088	4.9	394		4	8480	408			
						1952	4	8203	5.2	429		4	7965	378			
						1953	13	7838	4.8	375		12	7913	368		10	8603 400
						1954	11	8521	4.7	396		11	8717	412		11	8905 405
						1955	11	8736	4.8	420		11	8925	417		10	8846 418
						1956	9	7971	4.7	379		9	8850	402		9	8287 384
						1957	5	8530	4.8	414		5	9712	435		5	9444 426
						1958	3	9330	4.3	401		3	10647	469		1	10769 467
						1959	5	8416	4.7	371		5	9470	417		3	10719 470
						1960	3	7307	4.6	337		3	8077	324		1	6682 366
419240	2	4	7028	4.2	293	1952	1	7540	4.7	355		1	7700	392			
						1953	1	6380	4.7	302		1	7410	368		1	7249 356
						1954	1	6010	3.6	214		1	7930	358		1	8262 360
						1955	1	8180	3.6	297		1	9000	401		1	8197 355
419513	19	29	7562	4.8	363	1951	1	6160	5.4	334							
						1952	2	7920	5.2	403							
						1953	5	7240	5.1	371							
						1954	6	7917	4.6	369		4	8253	388		3	8477 395
						1955	6	7313	4.5	325		6	8658	396		6	8760 411
						1956	5	8294	4.7	394		6	7762	353		5	8047 367
						1957	4	8115	4.6	371		5	8872	399		2	7396 347
												4	8808	390		3	8727 392
419514	35	67	8835	4.7	412	1952	5	8550	4.7	397		2	8630	415			
						1953	7	7634	4.8	362		6	8965	397		4	9143 415
						1954	15	8125	4.7	378		13	8252	386		14	8939 415
						1955	12	9828	4.4	430		12	9587	456		12	8961 421
						1956	10	9403	4.7	439		10	9699	450		6	9225 420
						1957	9	8771	4.8	422		8	10068	450		9	10324 463
						1958	5	10086	4.7	479		2	10490	460		2	9352 435
						1959	4	9613	5.0	481		2	9570	446		1	10213 487
419988	1	1	12180	4.4	531	1959	1	12180	4.4	531		1	8190	380			
421539	1	1	10030	4.1	416	1959	1	10030	4.1	416		1	9110	427			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
422538	1	1	8090	3.7	296	1957	1	8090	3.7	296	1	7020	292	1	6366	263
422644	6	10	7935	5.0	395	1955	1	9210	4.8	444	1	9710	442	1	8295	383
						1956	3	7280	5.3	385						
						1957	5	7634	5.0	378	1	9840	524			
						1958	1	9510	4.5	423	1	6430	332			
423418	4	7	7816	4.5	353	1957	1	7660	4.6	355	1	12880	453	1	10442	376
						1958	3	8013	4.4	354	3	9367	359	3	8262	325
						1959	2	8410	4.9	408	2	10645	452	1	10551	366
						1960	1	7140	4.4	314	1	11630	385			
423426	4	4	9770	4.6	442	1959	2	10355	4.5	462	2	10510	446	2	10639	468
						1960	2	9185	4.7	422	2	10520	420	2	9952	407
426369	1	3	10000	5.0	496	1957	1	10550	5.0	524						
						1958	1	10140	5.0	510	1	12270	588	1	11303	549
						1959	1	9310	4.9	454	1	9580	477	1	10453	496
426820	10	17	8060	4.5	358	1953	3	6893	5.0	347	3	8653	407			
						1954	4	8538	4.9	406	4	9618	464	3	9806	485
						1955	3	7633	4.5	347	3	8820	424	3	9058	443
						1956	1	9840	4.8	474	1	12440	605	1	10998	516
						1957	2	8405	4.6	385	2	10605	528	2	9058	445
						1958	3	8093	4.3	337	3	7907	371			
						1959	1	9490	4.0	377	1	10970	437	1	10933	450
428158	1	2	12275	5.1	619	1958	1	12110	5.1	613	1	10030	508	1	10137	521
						1959	1	12440	5.0	625	1	9530	464			
430238	51	91	8306	4.5	377	1955	14	8836	4.5	401	13	9371	444	8	9638	453
						1956	14	8347	4.6	385	12	9933	463	12	9411	434
						1957	18	7625	4.6	347	15	9384	448	16	8880	416
						1958	22	8098	4.5	367	16	10171	441	14	8874	390
						1959	13	8700	4.5	390	13	9963	433	6	9830	452
						1960	10	8068	4.5	371	9	8779	407	5	9505	441
430271	14	30	7538	4.9	365	1952	2	6800	4.9	329						
						1953	2	8300	4.5	377	2	9470	404	2	8676	392
						1954	5	7258	5.2	380	5	7648	345	5	8339	398
						1955	4	7678	4.8	370	4	7228	336	4	7227	355
						1956	6	8477	4.6	392	6	8507	411	6	7467	363
						1957	6	7778	4.6	360	6	8405	395	6	7194	342
						1958	3	7953	4.8	385	3	6687	316	3	7074	337
						1959	2	6985	4.7	322	2	7475	335	2	6791	317
430463	3	4	7087	4.4	310	1957	1	6770	3.8	260	1	7420	299	1	6366	263
						1958	1	8060	4.6	367	1	13220	553	1	11532	467
						1959	2	6430	4.7	304	1	9450	328	1	10333	348
433384	9	26	7581	4.9	365	1953	2	7995	4.9	384	2	9470	469	2	8770	423
						1954	4	7158	4.9	353	4	8830	422	4	8865	425
						1955	3	5363	5.1	270	3	8130	388	3	9222	432
						1956	6	8570	4.8	404	4	9215	447	4	8712	405
						1957	5	8484	5.0	425	4	9845	466	4	9129	437
						1958	4	8005	4.7	378	3	8683	392	3	9382	436
						1959	2	9065	4.6	434	2	9875	444	1	8666	427
433930	22	33	8431	4.8	402	1954	1	8040	5.3	429	1	7530	355	1	8012	372
						1955	14	8294	4.8	397	14	9124	431	13	9138	425
						1956	8	8350	4.9	403	8	10164	479	8	9435	443
						1957	3	9023	4.9	433	3	9167	441	3	9421	452
						1958	3	9983	4.3	432	2	11120	467	1	9614	388
						1959	3	9677	4.7	459	3	8850	446	3	9908	476
						1960	1	9880	5.0	498	1	10060	492			
434678	3	5	8852	4.7	410	1959	3	9080	4.8	434	3	7480	344	3	8578	402
						1960	2	8805	4.7	410	2	8475	400			
437283	1	2	11560	4.4	504	1959	1	11240	4.4	494	1	11080	409	1	11739	416
						1960	1	11880	4.3	514	1	11670	414			
437646	1	1	4250	4.4	186	1959	1	4250	4.4	186	1	5930	268			
438262	12	18	7628	4.7	353	1952	2	5335	5.5	294	1	4190	228			
						1953	4	8725	4.4	383	4	7308	347	3	8891	400
						1954	6	7618	4.7	357	6	8953	415	5	8659	400
						1955	2	8030	4.8	381	2	8130	396	2	7271	339
						1956	2	8950	4.7	416	2	8770	423	1	4861	240
						1959	1	8280	4.4	364	1	7160	328			
						1960	1	8340	4.5	375	1	7830	357	1	7837	360
439085	5	14	7729	4.6	358	1954	2	6970	4.7	324	2	9175	423			
						1955	3	6953	4.8	343	2	7240	340	2	6824	322
						1956	1	7740	5.0	387	1	9590	431			
						1957	1	7710	5.1	396	1	9450	446	1	9080	429
						1958	1	7420	4.9	365	1	9410	421	1	8840	396
						1959	3	10640	4.0	307	2	9060	403	1	7292	356
						1960	3	9113	4.3	393	2	9210	427	1	9494	473
439592	18	19	8311	4.7	390	1956	1	11050	4.6	509	1	7890	395	1	8175	376
						1957	3	9633	4.9	478	3	12683	542	3	10609	467

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
GUEKNSEY																
						1958	5	7430	4.6	338	4	10950	418	4	9753	391
						1959	6	8322	4.5	380	6	10015	447	4	10699	469
						1960	4	7120	4.9	346	3	9510	430	2	9957	461
443636	1	1	7100	3.9	277	1960	1	7100	3.9	277	1	6960	318	1	7412	342
444341	1	2	2590	4.8	126	1959	1	4800	4.9	234	1	10880	427			
						1960	1	380	4.7	18	1	11030	441	1	11336	459
444418	11	17	8915	4.5	400	1953	1	6530	4.4	279	1	7780	330	1	8251	392
						1954	1	8280	4.3	353						
						1955	4	9330	4.6	426	2	8855	435	2	8148	404
						1956	2	9740	4.7	458	2	9610	489	1	8971	439
						1957	6	9615	4.4	425	4	8958	443	3	8277	398
						1958	1	6970	4.7	330						
						1959	2	8735	4.4	380	2	8945	431	1	8317	420
445419	16	19	9063	4.7	426	1958	4	9133	4.6	415	4	11280	478	4	10314	435
						1959	9	8129	4.9	396	9	9329	403	3	9276	393
						1960	6	10303	4.4	458	6	8878	398	5	10026	459
446687	106	239	9210	4.9	452	1953	11	9605	4.9	472	11	9598	450	11	9369	439
						1954	34	8957	4.9	438	30	8700	410	32	8961	420
						1955	44	9442	4.9	459	42	8995	419	37	9031	420
						1956	51	9498	4.9	461	50	9893	454	49	9277	427
						1957	37	9120	4.9	451	36	9782	458	37	9207	435
						1958	28	9383	4.9	461	28	11025	461	17	9393	436
						1959	25	10071	5.0	509	22	9256	440	9	9383	454
						1960	9	8366	4.8	405	9	9209	436	4	9080	422
451597	1	1	9680	4.9	474	1959	1	9680	4.9	474	1	9750	473			
454223	3	5	6501	5.0	325	1955	1	8200	4.8	394	1	7720	385	1	8251	399
						1956	1	7150	4.4	316	1	7690	359	1	8437	416
						1957	3	5513	5.0	281	3	8563	385	3	8913	390
454224	7	13	8445	4.5	380	1954	1	8460	5.2	437	1	9770	459	1	8284	425
						1955	3	8173	4.7	373	2	9430	439	1	9603	437
						1956	3	9217	4.6	419	2	7935	362	2	9870	431
						1957	2	7440	4.2	304	2	12445	502	2	9603	431
						1958	2	5725	4.8	276	1	12790	519			
						1959	2	9035	4.4	399	2	9290	389	1	10933	450
454483	3	5	9291	4.1	385	1955	1	9940	3.9	391	1	9040	410	1	8175	376
						1956	1	9820	3.8	376	1	10010	490	1	8862	414
						1957	2	9570	4.1	391	2	10210	506	2	8720	413
						1960	1	8280	4.4	368	1	4430	209			
455056	5	5	11456	4.7	542	1959	2	11505	4.7	534	2	9400	464			
						1960	3	11423	4.8	547	3	9260	457	3	9647	468
457384	1	1	8580	5.5	469	1958	1	8580	5.5	469	1	10200	515	1	10137	521
457441	11	22	7412	5.0	367	1954	2	8145	4.9	397	2	9240	439	2	8372	402
						1955	6	7458	4.9	360	6	9152	439	6	8869	421
						1956	8	7694	5.1	388	8	10843	513	7	9522	440
						1957	4	7020	5.1	363	4	8803	405	4	8393	412
						1958	1	6780	5.8	392	1	10870	534	1	10006	501
						1959	1	7030	5.0	349	1	10290	504	1	10628	534
459489	14	26	8343	4.9	409	1954	1	6850	5.1	350	1	9560	451	1	10137	501
						1955	7	8264	4.9	409	6	8348	396	6	8909	439
						1956	6	7743	5.2	400	5	8898	454	4	9374	456
						1957	4	7833	5.0	386	4	8168	418	4	8698	426
						1958	1	10070	4.8	482	1	11150	508	1	9559	452
						1959	6	9745	4.7	459	5	8660	413	3	8901	424
						1960	1	9720	4.8	465	1	9720	454			
461752	2	3	7145	4.8	335	1955	1	7590	4.5	339	1	7280	351	1	7979	391
						1956	1	7590	4.7	355	1	7910	396	1	8731	419
						1957	1	5810	5.2	304	1	11090	534	1	9625	468
466976	6	8	9917	4.8	468	1958	3	8353	5.0	415	2	8485	417	2	8905	421
						1959	5	9974	4.6	456	5	9764	460	3	9767	470
467102	2	3	8218	4.6	372	1957	1	7660	4.8	371	1	14730	565	1	8317	302
						1958	1	5350	4.5	240	1	12160	499			
						1959	1	9930	4.4	437	1	8370	387			
470521	14	15	7734	4.8	372	1956	1	10150	4.5	456	1	9070	422	1	9984	456
						1957	3	7243	4.9	350	3	13527	519	3	10359	429
						1958	7	7424	5.0	370	5	9244	427	2	8317	401
						1959	3	7717	4.8	372	3	9653	429	1	11282	530
						1960	1	7610	4.3	328	1	5850	249			
470947	2	3	9180	4.8	445	1955	1	7730	4.8	373	1	7780	367	1	8012	378
						1956	1	10710	4.9	525						
						1957	1	10550	4.7	500						
472164	1	1	9160	4.6	423	1959	1	9160	4.6	423	1	5460	244			
473934	2	2	8565	4.3	368	1957	1	9080	4.4	403						
						1959	1	8050	4.1	332	1	11190	447	1	10933	450
475930	12	20	9136	4.5	414	1955	1	7740	4.9	379	1	11250	483	1	10606	470
						1956	5	9344	4.6	431	5	10828	493	4	10102	447



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																																		
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.																								
GUERNSEY																																								
482383	8	13	8101	4.9	392	1957	6	9032	4.5	410	4	9895	456	4	9238	423																								
						1958	6	9447	4.4	417	4	12253	487	1	10039	413																								
						1959	2	11450	4.7	534	2	11360	457																											
						1955	3	9010	5.1	458	3	9273	439	3	9214	430																								
						1956	2	9835	4.5	441	2	8980	410	1	10453	472																								
						1957	3	7910	5.0	393	2	9230	416	2	7450	356																								
						1958	1	8980	5.1	456	1	13260	662	1	10818	522																								
491462	16	17	7810	5.2	402	1959	2	7620	4.6	351	2	9485	415	2	8780	394																								
						1960	2	7215	4.7	329	2	7995	365	1	8633	435																								
						1957	2	8700	4.9	429	1	7850	365	1	8796	403																								
						1958	7	7923	5.1	407	2	11195	517	2	11249	523																								
						1959	6	7273	5.6	404	6	10468	466	1	13592	628																								
						1960	2	8665	4.9	424	2	8645	389																											
						491614	7	8	6634	4.8	321	1956	2	3965	5.0	200	2	6905	320	2	5450	260																		
1958	1	8070	5.7	459																																				
1959	3	8493	4.8	404	3							10090	434	2	10682	449																								
1960	2	6975	4.3	299	2							7630	323																											
493092	1	2	8115	4.9	396							1959	1	8830	4.8	425	1	8640	390	1	7695	367																		
												1960	1	7400	4.9	366	1	10690	514	1	8851	428																		
												495864	4	4	8570	4.6	390	1957	1	8480	4.6	387																		
						1959	2	8880	4.7	416	2							10900	464	1	9865	460																		
						1960	1	8040	4.3	341	1							8910	424																					
						499861	8	11	8112	5.1	411							1957	1	8350	5.3	443	1	11870	596	1	11641	564												
																		1958	2	6495	5.2	336	2	9875	438	2	10110	453												
1959	7	8059	5.1	407	6													9028	418	5	9233	448																		
1960	1	9460	5.4	512	1													13940	500																					
509491	2	2	7080	4.3	302							1958	1	7950	4.1	322	1	11780	466	1	10464	412																		
												1959	1	6210	4.5	282				1	7968	353																		
												510322	11	14	9798	4.4	430	1958	3	10127	4.5	452	2	10810	510	3	10082	486												
						1959	8	9548	4.4	425	6							9658	439	4	9161	428																		
						1960	3	9977	4.3	421	3							9627	432	3	9784	455																		
						512096	1	1	9100	4.6	418							1959	1	9100	4.6	418	1	9790	400	1	10682	449												
																		519274	1	1	9240	4.9	457	1959	1	9240	4.9	457	1	11500	432	1	10050	386						
519636	5	5	8164	5.2	422																			1959	3	8437	5.1	428	3	8807	436	1	9657	461						
																								1960	2	7755	5.3	412	1	10600	486	1	10235	492						
												522345	1	1	5540	5.8	320							1959	1	5540	5.8	320	1	8010	387									
																								523595	1	1	8170	4.3	353	1960	1	8170	4.3	353	1	8300	373			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	MILK LB.	FAT LB.	AV. LBS.	YEARLY RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																	
617728	1	1	12860	3.4	436	1947	1	12860	3.4	436							
620987	1	3	21233	3.0	731	1947	2	19470	3.1	738							
						1950	1	24760	2.9	717							
672622	5	16	11033	3.6	399	1947	8	11300	3.6	411							
						1948	1	10080	3.5	350							
						1949	2	12125	3.8	465							
						1950	2	11395	3.8	430							
						1951	2	10625	3.7	388							
						1952	1	11480	3.7	431							
676723	2	3	10723	4.2	442	1947	1	13150	4.0	526							
						1949	1	8310	4.3	360							
						1950	1	8280	4.3	356							
693386	3	13	13542	3.5	471	1947	4	12173	3.6	434							
						1948	2	13675	3.6	491	1	10790	396				
						1949	2	13630	3.6	483	1	14110	512				
						1950	1	13120	3.7	488	1	13020	510				
						1951	1	13800	3.4	473	1	11560	427				
						1952	1	12240	3.6	440	1	11460	440				
						1953	1	15780	3.6	569	1	12910	509		1	11750	457
						1955	1	14570	3.6	519	1	12440	465		1	13211	521
698848	1	1	12340	3.2	395	1954	1	12340	3.2	395							
702939	1	1	12780	3.3	422	1947	1	12780	3.3	422							
707767	4	9	15063	3.4	506	1947	1	10390	3.8	398	1	10990	368				
						1948	2	16410	3.6	586	1	14240	489				
						1949	1	14150	3.1	438							
						1951	1	18260	3.2	583	1	14210	511				
						1954	1	15560	3.5	542	1	14610	568		1	11761	455
						1955	1	14760	3.4	499	1	15510	596		1	15293	565
						1956	1	14520	3.8	552	1	14770	565		1	13178	511
						1959	1	14500	3.1	454	1	11490	451				
708526	2	4	10240	3.3	333	1947	1	13160	3.1	409							
						1949	2	7785	3.6	279							
						1950	1	6390	3.3	210							
715471	24	74	11839	3.5	417	1947	47	11656	3.5	412							
						1948	8	11711	3.5	404							
						1949	7	12063	3.5	428	1	12690	356				
						1950	6	13185	3.5	452	1	14280	506				
						1951	2	13295	3.3	437	1	11850	458				
						1952	1	16580	3.7	610	1	11500	456				
						1953	1	5860	3.1	179	1	13870	504		1	13374	518
						1954	1	14710	3.8	557	1	11380	436		1	13429	510
						1955	1	13130	3.4	449	1	13970	572		1	13941	533
718344	1	5	13368	3.7	492	1948	1	13880	4.0	549							
						1949	1	10790	3.6	386							
						1950	1	16490	3.7	607							
						1951	1	11590	3.5	404							
						1952	1	14090	3.6	514							
718551	6	17	12211	3.9	466	1948	3	12723	3.9	494							
						1949	6	12267	3.8	461							
						1950	3	12247	3.7	441							
						1951	3	11827	3.9	458	1	13570	492				
						1952	1	13800	3.8	521	1	12450	413				
						1953	1	11210	3.7	414	1	12550	494				
722342	16	59	12271	3.6	438	1947	11	11791	3.6	425	5	12248	442				
						1948	3	11653	3.6	421	3	12517	497				
						1949	5	14416	3.3	473	2	13140	446				
						1950	11	12246	3.6	437	5	12336	433				
						1951	12	12868	3.6	457	6	12513	438				
						1952	9	12279	3.5	427	5	12236	450				
						1953	4	12643	3.4	432	4	12533	468		4	12088	442
						1954	4	9533	3.6	337	4	12063	445		4	11996	439
723903	6	12	12668	3.9	492	1949	1	11530	4.0	466							
						1951	2	12360	4.1	500							
						1952	2	12970	3.7	477							
						1953	3	13767	3.7	507	2	10515	361		1	12600	465
						1954	1	14440	3.6	526	1	11875	429				
						1955	1	14180	3.6	513	1	13580	488				
						1956	1	14270	3.8	548	1	11950	424		1	12590	453
						1958	1	9280	3.8	356	1	12700	465		1	11979	456
725852	2	2	8845	4.0	355	1947	2	8845	4.0	355							
726056	147	391	10988	3.8	417	1947	2	9690	4.4	425							
						1948	1	12270	3.4	423							
						1949	9	9782	3.9	383	2	11875	429				
						1950	41	10906	3.8	416	13	11888	435				
						1951	38	11720	3.9	456	17	12526	456				

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
						1952	62	10789	3.8	411	37	11731	434			
						1953	71	11243	3.9	437	65	11870	442	55	11559	425
						1954	55	11189	3.8	426	54	11723	435	47	11446	423
						1955	44	11803	3.7	440	42	11762	430	36	11974	442
						1956	33	11568	3.7	425	32	11867	435	30	11943	439
						1957	19	11381	3.7	420	17	11969	439	18	12006	437
						1953	3	11574	3.7	452	8	12116	451	7	11261	415
						1959	6	12433	3.9	474	6	12623	469	2	12159	471
						1960	2	10745	3.4	367	2	10460	365	2	11162	399
729720	3	11	14510	3.4	498	1949	2	16310	3.5	559	2	12630	491			
						1950	3	16350	3.6	582	2	10520	416			
						1951	1	17730	3.6	638	1	12440	465			
						1954	1	11940	3.4	405	1	12210	425			
						1955	2	12850	3.2	416	2	12270	438	2	11244	404
						1956	1	14770	3.5	485	1	12440	476	1	11903	452
						1957	1	7610	3.3	250	1	10770	390	1	10562	384
733131	2	3	12633	3.5	442	1952	1	11970	3.5	417						
						1958	1	13820	3.4	467				1	12175	444
						1959	1	12770	3.6	465				1	13320	498
733862	2	9	12253	3.5	422	1948	1	14330	3.6	518						
						1949	1	10370	3.8	392						
						1950	1	11340	3.6	405						
						1951	1	5530	3.2	177						
						1955	1	15460	3.0	467	1	13170	480			
						1956	1	14630	3.4	498	1	14940	570	1	13287	469
						1957	1	16560	3.5	581	1	15370	512	1	14508	543
						1958	1	13660	3.5	474	1	11930	493			
						1959	1	10250	3.2	329	1	13510	542			
739007	5	15	12845	3.5	445	1949	2	13235	3.3	428	1	13680	483			
						1950	3	12107	3.5	429	1	13290	481			
						1951	3	12970	3.4	448	1	14530	558			
						1952	2	15690	3.6	566	1	12840	484			
						1953	1	16170	3.4	554	1	13700	532	1	13799	574
						1954	1	16310	3.4	562	1	15000	499	1	13843	523
						1955	1	15050	3.4	512	1	12870	485	1	13745	522
						1956	1	13580	3.5	443	1	13430	536	1	13287	507
						1957	1	15570	3.5	542	1	13680	525	1	14323	540
743481	54	146	12204	3.6	437	1947	91	12062	3.7	441						
						1948	9	12213	3.6	436						
						1949	7	13971	3.6	502						
						1950	10	13377	3.6	482						
						1951	10	12110	3.7	441	2	12990	475			
						1952	6	11967	3.7	436	2	11885	423			
						1953	4	15543	3.6	550	2	11855	415	2	11543	412
						1954	2	12365	3.4	418	2	11450	411	1	12600	446
						1955	2	12125	3.4	416	2	12090	429	2	11587	409
						1956	2	12960	3.3	430	2	13575	503	2	12086	477
						1957	2	14400	3.8	544	1	12510	464	1	12350	451
						1958	1	11650	3.4	403	1	11970	454	1	12699	467
743690	1	2	10810	3.5	382	1949	1	11490	3.6	417						
						1950	1	10130	3.4	346						
747241	1	1	12020	2.7	321	1949	1	12020	2.7	321						
748385	2	2	12355	3.9	483	1947	1	12110	4.4	534						
						1960	1	12600	3.4	431	1	13460	430			
748396	5	6	13284	4.1	537	1949	2	14415	3.9	564						
						1951	2	13595	4.1	564						
						1952	2	12525	4.3	530						
748994	11	34	12046	3.6	438	1949	4	11673	3.8	440	2	13270	460			
						1950	7	11966	3.6	431	2	12575	465			
						1951	7	11907	3.7	439	3	12113	446			
						1952	4	13143	3.9	510	4	13593	498			
						1953	3	12973	3.8	494	3	13603	491	3	12448	454
						1954	3	13220	3.6	478	3	14297	518	3	12335	450
						1955	2	14070	4.1	595	2	12910	467	2	13810	512
						1956	1	12700	3.4	429	1	14760	523	1	12012	452
						1957	2	12555	3.7	460	2	12665	469	2	13255	476
						1958	1	16140	3.4	545	1	13870	473	1	13963	497
749872	2	4	11475	4.0	461	1947	3	11313	4.0	448						
						1948	1	10950	4.0	444						
754118	3	9	13469	3.6	491	1950	1	14280	3.7	535						
						1952	1	11840	3.6	428						
						1953	1	13660	3.6	498						
						1954	1	10990	3.5	388	1	12150	465	1	10497	389
						1955	2	13155	3.8	491	2	13525	505	2	12410	453
						1956	1	14280	3.7	527	1	15060	560	1	14682	537
						1959	1	15740	3.5	552	1	14690	526	1	14464	550
						1960	1	13880	3.4	472	1	14690	511			
756640	1	1	8780	3.9	338	1947	1	8780	3.9	338						
759954	1	4	14228	3.4	487	1947	2	13825	3.3	452						
						1948	1	14750	3.5	521						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP. AV. YEARLY HERD AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	
HOLSTEIN																	
						1949	1	14510	3.6	522							
761977	2	2	13315	3.8	496	1953	1	15050	3.5	533							
						1954	1	11580	4.0	459							
763008	1	3	11577	4.2	491	1947	3	11577	4.2	491							
765379	61	169	11660	3.7	436	1947	107	11712	3.8	441	2	11675	412				
						1948	22	12100	3.8	461	2	12990	550				
						1949	16	11310	3.7	423	1	14020	524				
						1950	10	13148	3.6	480	2	13890	545				
						1951	7	13271	3.5	471	2	13765	535				
						1952	3	12980	3.9	506	2	12860	501				
						1953	2	14425	4.2	603	2	12945	516	2	13620	523	
						1955	1	14740	4.3	628	1	12560	476	1	13080	506	
						1956	1	11530	4.0	465	1	14570	615	1	12154	498	
767776	1	1	13640	3.2	430	1947	1	13640	3.2	430							
771491	1	6	13885	4.0	548	1949	1	12260	4.0	489							
						1950	1	8930	4.0	361							
						1951	1	12260	3.9	475	1	10040	357				
						1952	1	15270	3.6	557	1	10540	385				
						1953	1	16710	4.1	679	1	11230	408				
						1956	1	17880	4.1	726	1	13030	469	1	10333	373	
775264	6	16	12754	3.7	473	1947	3	11973	3.7	447							
						1948	2	10290	3.7	580							
						1949	2	14500	3.5	493	1	12400	446				
						1950	2	14045	3.5	479	1	11330	413				
						1951	2	15350	3.7	542	2	12590	469				
						1952	1	11390	3.9	448	1	10210	413				
						1953	1	10390	3.5	367	1	10660	383	1	10987	404	
						1954	1	22060	3.5	768	1	13470	519	1	11761	455	
						1957	1	16510	3.7	677	1	15150	583	1	14072	537	
						1958	1	14160	4.1	587	1	15260	531	1	13462	516	
776306	1	7	12779	3.5	457	1951	1	8750	3.4	296	1	12000	454				
						1953	1	13990	3.6	510	1	13270	497	1	12688	458	
						1955	1	14660	3.6	529	1	14340	532	1	14017	513	
						1956	1	12890	3.5	457	1	12680	488	1	12045	458	
						1957	1	11350	3.4	387	1	11220	445	1	11314	448	
						1958	1	13950	3.5	494	1	11930	471	1	11957	477	
						1959	1	15860	3.8	523	1	11440	462	1	11946	473	
778235	5	13	10743	3.6	387	1947	3	12063	3.6	434							
						1948	1	11520	3.6	418							
						1949	1	19920	3.1	622							
						1950	2	9960	3.8	366	1	9380	319				
						1951	2	8375	3.8	307	1	11090	402				
						1952	2	9980	3.6	354	1	10050	365				
						1953	2	12695	3.7	466	2	10655	402	2	11805	426	
778470	3	10	11986	3.5	424	1948	1	11610	3.5	406	1	11710	404				
						1949	1	8560	3.5	283							
						1952	2	10100	3.5	351	1	10870	391				
						1953	1	14720	3.6	528	1	13140	482	1	9287	339	
						1954	1	15510	3.6	585	1	15580	608	1	11881	440	
						1956	2	13935	3.7	509	2	16100	568	2	14715	550	
						1957	1	12970	3.6	468	1	14840	501	1	13167	450	
						1958	1	15770	3.7	504	1	14190	473	1	11857	422	
779567	9	21	11420	3.7	422	1950	1	14180	3.7	524	1	12140	459				
						1951	4	10865	3.6	373	5	11183	387				
						1952	6	13345	3.8	508	4	11508	423				
						1953	6	13130	3.7	486	6	12923	477	5	12476	446	
						1954	2	11945	3.8	451	2	12570	460	1	13407	486	
						1955	2	14580	3.5	503	2	12160	455	1	9854	365	
781423	1	1	8870	3.5	313	1948	1	8870	3.5	313							
781424	5	14	11089	3.5	394	1947	1	10190	3.5	341							
						1949	1	13070	3.4	439							
						1950	1	10830	3.5	376							
						1951	1	14430	4.0	574	1	15670	608				
						1952	1	12490	4.5	532	1	13770	516				
						1953	1	10920	3.9	428	1	12420	497	1	12252	488	
						1954	3	12673	3.6	454	5	11903	416	3	11830	455	
						1955	2	10475	3.5	335	2	13540	473	1	13547	590	
						1956	2	11000	3.5	365	2	12415	456	1	11560	397	
						1957	1	11900	3.2	386	1	12060	447	1	10802	364	
782552	20	40	11642	3.7	429	1948	1	12470	3.9	490							
						1949	5	11403	3.6	410							
						1950	10	12207	3.7	444							
						1951	7	12279	3.5	432	1	13420	470				
						1952	6	10126	3.6	367							
						1953	4	12765	3.9	495	1	11450	377	2	10506	390	
						1954	2	14025	3.8	528	1	11410	446				
						1955	3	15457	3.9	531	2	13140	501	2	12453	466	
						1956	1	11310	4.1	459	1	12500	447	1	11140	402	
						1957	1	19170	4.0	768							
						1958	1	17250	3.9	670							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
						1960	1	10550	3.3	343	1	10010	351			
784099	2	8	13940	3.7	508	1948	1	12000	3.9	463						
						1949	1	14310	4.0	570	1	17000	575			
						1950	1	12380	3.8	474	1	12790	435			
						1951	1	14140	3.8	542	1	11840	419			
						1952	1	10640	3.7	392	1	11160	395			
						1954	2	13255	3.8	502	2	13610	488	2	11358	401
						1956	1	17160	3.2	554	1	14750	498	1	14606	542
784721	2	6	14553	3.3	471	1950	1	11730	3.5	405	1	13990	552			
						1951	1	19390	3.1	603	1	16570	515			
						1954	1	13280	3.0	398	1	10770	384			
						1955	1	9620	3.0	290	1	11360	417	1	12339	444
						1959	1	16520	3.2	528	1	12640	487			
						1960	1	16780	3.6	603	1	12800	465	1	10802	419
788063	3	5	13043	3.3	429	1950	1	12880	3.0	383						
						1951	1	13730	3.1	429						
						1952	2	13370	3.4	454						
						1953	1	12140	3.3	398	1	11680	423	1	12263	439
790123	3	8	11778	3.6	417	1950	3	11930	3.7	431	1	17070	609			
						1951	2	10900	3.9	411	1	14900	506			
						1952	2	11805	3.5	408	1	15400	529			
						1953	1	8040	4.4	351	1	13380	503	1	12960	457
790599	15	35	12598	3.6	456	1950	1	13390	3.5	468						
						1951	6	12083	3.8	460	1	8480	382			
						1952	13	12518	3.6	446	5	12318	469			
						1953	8	12528	3.6	455	6	12390	467	5	11938	448
						1954	3	13833	3.5	478	3	12117	456	3	12887	481
						1955	1	12630	3.5	436	1	13590	497	1	11467	419
						1956	2	15820	3.7	585	2	12970	505	2	12524	469
						1957	1	13090	3.6	468	1	14080	546	1	13789	524
792318	1	1	14930	3.5	515	1953	1	14930	3.5	515						
792389	166	402	11460	3.6	411	1947	161	11704	3.7	424						
						1948	53	11838	3.6	428	5	11966	429			
						1949	56	11554	3.6	412	5	12550	453			
						1950	28	11241	3.7	414	3	13610	475			
						1951	31	10737	3.6	391	11	12063	448			
						1952	23	11568	3.5	409	16	12034	448			
						1953	20	11865	3.5	413	18	12315	457	17	11568	425
						1954	13	11178	3.5	391	11	11877	439	11	12382	463
						1955	7	10297	3.6	369	5	13146	470	6	12780	469
						1956	6	10917	3.4	375	5	11630	411	2	11107	403
						1957	1	9440	3.6	338	1	10840	375	1	10148	359
						1958	2	14625	3.4	493	2	12225	447	1	12097	435
						1960	1	11050	3.1	345	1	7890	293			
794731	1	1	13800	3.7	509	1949	1	13800	3.7	509						
798291	23	58	11821	3.8	442	1948	2	12925	3.3	418						
						1949	8	12461	3.7	448						
						1950	10	11207	3.8	433	1	13390	491			
						1951	9	10876	3.9	422	2	12395	447			
						1952	10	12203	3.8	469	5	12430	448			
						1953	7	12586	3.9	487	6	12573	465	5	11842	423
						1954	7	12920	3.8	490	7	12870	476	5	13377	483
						1955	3	11383	4.2	482	3	13147	471	2	13822	527
						1956	1	13110	4.8	632	1	16070	584	1	14323	516
						1957	1	11430	4.0	462	1	12650	468	1	13287	487
798451	3	5	11457	3.6	402	1950	1	6310	3.7	233						
						1952	1	14610	3.6	521						
						1953	1	15070	3.5	525	1	10950	383	1	11020	385
						1955	1	13860	3.5	478	1	10010	368	1	10475	372
						1956	1	11420	3.1	355	1	11160	391	1	9799	351
800230	2	3	13695	3.7	509	1950	2	13900	3.7	513						
						1951	1	12710	3.7	475						
803178	48	129	11058	3.5	386	1948	5	10416	3.5	366	2	10830	389			
						1949	17	11195	3.6	398	5	11734	429			
						1950	20	11135	3.5	390	6	11730	409			
						1951	18	12466	3.5	436	8	11294	434			
						1952	23	10665	3.6	381	15	11390	408			
						1953	16	10771	3.7	394	15	11029	408	10	11169	402
						1954	17	10444	3.5	361	17	10773	393	12	10705	390
						1955	6	11028	3.5	384	6	11085	399	5	12319	449
						1956	3	13550	3.4	464	3	12007	442	3	11809	425
						1957	2	12750	3.4	420	2	11475	428	2	11244	414
						1958	1	13790	3.4	462	1	10850	405	1	12186	459
						1959	1	14250	3.2	454	1					
805118	1	2	12880	3.7	479	1952	1	12950	3.6	473						
						1953	1	12810	3.8	484				1	11129	415
807399	3	8	11476	3.5	407	1950	1	11760	3.3	392						
						1951	1	9820	3.4	337	1	12450	417			
						1952	2	11095	3.7	414	2	11795	430			
						1953	2	11170	3.7	412	2	11635	438	2	11664	420



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
808496	2	3	11125	3.8	423	1954	1	11450	3.6	417	1	10930	394	1	10900	403	
						1955	1	11610	3.3	383	1	10050	365	1	10965	409	
						1952	1	11380	3.7	425	1	11810	435	1	12263	457	
						1953	1	13340	3.9	517	1	11740	465				
808860	858	2145	12096	3.6	440	1954	1	9890	3.8	374	1	12940	432	178	12177	447	
						1947	151	12856	3.6	458	3	15917	456				
						1948	125	12649	3.6	454	8	15193	477				
						1949	179	12467	3.7	457	27	12976	468				
						1950	203	12341	3.7	455	48	15757	505				
						1951	235	12020	3.7	442	89	12770	469				
						1952	241	12275	3.7	452	138	12759	471				
						1953	248	12382	3.7	455	216	12579	461				
						1954	226	12215	3.7	447	208	12485	458		185	12436	456
						1955	171	12392	3.6	452	156	12670	466		142	12388	454
						1956	149	12714	3.6	459	137	12951	478		125	12473	458
						1957	95	12319	3.7	453	81	12741	476		78	12794	479
						1958	72	13087	3.7	481	59	13032	505		49	12271	464
						1959	38	11616	3.7	438	37	11937	451		25	12108	457
						1960	14	12229	3.7	450	14	12563	469		6	12186	457
811487	1	1	10830	4.3	471	1950	1	10830	4.3	471							
812303	2	5	12493	3.6	438	1949	1	17060	2.9	488				1	11140	415	
						1951	1	14310	3.6	518	1	11390	440				
						1952	1	15300	3.4	517	1	13260	559				
						1953	2	10510	3.7	589	1	13720	520				
813025	1	5	14596	3.7	538	1948	1	12220	3.5	424	1	13450	458	1	14879	549	
						1949	1	15470	3.5	548	1	16960	596				
						1951	2	16110	3.8	612	2	16105	569				
						1953	1	13070	3.8	496	1	12480	513				
813063	1	1	10310	3.4	352	1952	1	10310	3.4	352	1	10300	355				
815661	1	4	17650	3.4	598	1953	1	16830	3.3	556				1	11500	413	
						1954	1	14350	3.5	502	1	12240	450				
						1955	1	18260	3.4	619	1	10100	400				
						1957	1	21160	3.4	714	1	14010	537				
816372	6	12	12327	3.8	459	1952	1	10410	4.0	414				2	12274	468	
						1953	3	12840	3.6	463	5	12180	451				
						1954	4	11898	3.7	439	4	12818	475				
						1955	2	12645	3.8	484	2	13740	503				
						1956	2	10510	3.7	388	2	13455	484				
820151	2	3	14443	3.5	496	1950	2	14570	3.5	498				10	11732	425	
						1951	1	11430	3.6	415							
822064	32	86	10660	3.8	403	1949	1	11010	3.7	407				12	12513	462	
						1950	5	9196	4.0	366	2	13355	495				
						1951	5	10274	3.9	396	4	12268	477				
						1952	9	11369	4.0	451	8	13255	468				
						1953	15	10830	4.0	435	13	12305	460				
						1954	17	11194	3.8	425	17	12871	474				
						1955	11	10224	3.8	388	11	12317	455				
						1956	7	10006	3.9	389	7	11597	436				
						1957	6	10637	3.9	415	6	11342	450				
						1958	3	11170	4.0	441	3	12515	445				
						1959	5	11490	4.0	456	5	12264	460				
						1960	2	9545	3.6	538	2	10760	400				
822438	2	8	15152	3.2	480	1951	1	13410	3.0	402	1	10280	374	1	12263	459	
						1952	2	13870	3.4	462	2	11610	417				
						1953	1	10090	3.5	357	1	11780	425				
						1954	1	19200	3.0	568	1	12970	466				
						1955	1	18940	2.8	535	1	13650	475				
						1956	1	22850	2.4	551	1	15340	541				
						1958	1	24110	5.6	870	1	15260	593				
822837	17	50	12341	3.8	462	1950	1	15920	3.4	545				5	12339	449	
						1951	4	12235	3.7	440	3	15910	497				
						1952	9	12421	3.7	458	7	13344	486				
						1953	7	11305	3.9	445	6	11962	451				
						1954	9	12532	3.7	463	9	12506	457				
						1955	9	12807	3.7	481	9	15209	476				
						1956	4	11530	3.9	448	4	13595	485				
						1957	2	12480	4.0	485	2	13665	485				
						1958	5	14420	3.8	553	1	14660	529				
						1959	2	14805	4.1	590	2	12985	500				
						825055	29	81	15274	3.6	474	1950	1				11400
1951	4	12685	3.6	446	8							12824	462				
1952	19	12864	3.6	465	11							13266	496				
1953	15	14405	3.5	506	11							11523	437				
1954	12	13840	3.4	477	7							11640	440				
1955	8	12829	3.4	433	5							11962	434				
1956	6	11753	3.4	401	6							11887	459				
1957	9	13188	3.4	452	3							11577	417				
1958	4	11950	3.4	404	4							12588	455				
1959	4	13225	3.7	488	1							15420	527				
1960	1	14110	3.7	519													

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LBS.	FAT LB.
HOLSTEIN																
823710	323	835	11892	3.6	4.31	1947	35	11905	3.6	4.30	5	10997	587			
						1948	68	11751	3.6	4.20	7	12600	464			
						1949	77	11720	3.7	4.50	13	12638	464			
						1950	68	12321	3.7	4.56	23	12613	473			
						1951	101	11848	3.7	4.41	44	12435	458			
						1952	100	11659	3.6	4.20	64	12045	444			
						1953	102	12370	3.6	4.44	88	12236	456	70	11792	429
						1954	93	12462	3.6	4.46	90	12194	453	73	12158	450
						1955	64	12400	3.5	4.38	61	12323	454	55	12320	453
						1956	54	12724	3.5	4.50	51	12439	455	46	11890	434
						1957	34	12117	3.6	4.37	31	12673	467	31	12298	454
						1958	21	12678	3.8	4.84	20	13072	497	18	12685	474
						1959	15	13571	3.7	5.00	15	13103	483	8	13264	501
						1960	3	12753	3.4	4.38	3	10793	388			
826435	11	31	12166	3.8	4.55	1951	5	10930	3.8	4.14	2	12415	496			
						1952	6	11890	3.7	4.37	4	14590	533			
						1953	6	10815	3.8	4.06	5	13344	490	3	12597	458
						1954	5	12156	3.8	4.57	5	13260	486	4	12720	467
						1955	4	12375	3.7	4.61	4	12313	451	3	11721	437
						1956	4	12075	3.8	4.58	4	13078	473	4	12688	462
						1959	1	17720	3.5	6.25	1	14600	524	1	15413	567
826750	36	93	12827	3.7	4.74	1951	6	13228	3.6	4.71	5	12413	462			
						1952	15	13513	3.6	4.79	9	15971	498			
						1953	21	12689	3.8	4.78	19	11937	436	16	11404	424
						1954	13	12815	3.7	4.74	12	12604	456	12	11576	426
						1955	14	12547	3.7	4.70	13	12549	447	11	11744	425
						1956	10	12034	3.8	4.57	9	12627	471	9	12380	455
						1957	7	12700	3.8	4.82	7	12761	465	7	12806	473
						1958	5	14378	3.6	5.25	5	13914	514	5	13315	499
						1959	4	14108	3.7	5.19	5	13150	497	2	15555	552
828821	258	617	12373	3.9	4.82	1951	7	13001	4.0	5.21	4	13110	494			
						1952	94	12877	3.9	5.08	59	12638	467			
						1953	155	12496	3.9	4.89	135	12592	466	121	12296	451
						1954	135	12081	3.9	4.70	130	12411	458	116	12421	459
						1955	85	12397	3.9	4.86	81	12500	462	72	12308	459
						1956	66	12455	3.9	4.89	64	13132	483	56	12487	466
						1957	33	12154	4.0	4.87	29	12341	472	31	12399	472
						1958	24	11938	3.8	4.58	21	12230	472	14	12181	456
						1959	16	11700	3.8	4.47	15	12627	483	6	12382	466
						1960	2	7415	3.7	2.70	2	10785	404	1	6622	353
						829607	838	2186	11582	3.8	4.32	1947	39	11200	3.8	4.23
1948	117	11721	3.7	4.34	12							13141	487			
1949	167	11783	3.8	4.45	45							13523	486			
1950	224	11972	3.8	4.52	69							13081	476			
1951	248	11776	3.8	4.47	108							12893	477			
1952	245	11878	3.8	4.45	148							12945	479			
1953	233	12280	3.7	4.57	196							12831	477	169	12477	460
1954	228	11952	3.7	4.44	215							12445	461	189	12370	460
1955	203	11877	3.7	4.41	189							12403	461	175	12097	448
1956	155	12324	3.7	4.60	148							12813	480	135	12307	456
1957	131	11820	3.7	4.40	121							12659	475	113	12354	462
1958	109	12078	3.7	4.51	96							12534	480	80	12245	463
1959	73	12588	3.8	4.74	72							12658	477	40	12678	482
1960	14	11630	3.8	4.43	14							13045	489	7	12491	473
831073	33	59	13493	3.6	4.89	1952	1	10900	3.3	3.56						
						1954	10	14408	3.6	5.23	10	13848	504	9	13947	511
						1955	14	13146	3.6	4.68	14	12481	461	12	12264	448
						1956	7	14453	3.7	5.38	7	13583	498	6	13231	482
						1957	6	12513	3.9	4.84	6	11958	445	6	12048	450
						1958	7	14813	3.6	5.31	6	13655	507	5	13067	478
						1959	10	13982	3.6	4.99	10	13127	477	3	13414	511
						1960	4	16480	3.8	6.17	4	13153	500	2	14650	538
831732	194	438	11005	3.7	4.03	1948	13	10309	3.7	3.81	1	13350	451			
						1949	35	11209	3.7	4.08	5	10740	383			
						1950	45	12045	3.6	4.34	15	11893	422			
						1951	53	11916	3.6	4.27	21	12570	446			
						1952	47	11115	3.6	4.04	29	11877	434			
						1953	71	11275	3.7	4.11	61	11953	443	53	11948	436
						1954	69	11182	3.6	4.05	67	11346	411	56	11426	417
						1955	50	11225	3.7	4.17	49	11398	419	45	11496	421
						1956	27	11318	3.8	4.27	26	12100	437	25	11880	436
						1957	15	11426	3.8	4.31	11	11891	438	12	11629	436
						1958	9	11096	3.6	3.92	7	12580	468	4	12734	467
						1959	4	13473	3.8	5.13	4	12165	451	3	10860	403
						832249	1	1	11480	3.4	3.92	1954	1	11480	3.4	3.92
832250	1	2	10670	3.5	3.69	1948	1	10790	3.6	3.90						
						1949	1	10550	3.3	3.47						
832252	1	1	7430	3.6	2.66	1947	1	7430	3.6	2.66						
834606	3	3	12347	3.4	4.20	1951	1	12000	3.4	4.11						
						1952	2	12520	3.4	4.25						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
837641	1	1	14810	3.3	485	1959	1	14816	3.3	485	1	13260	527	1	13930	520
837973	3	10	10171	3.8	373	1947	1	11360	3.7	421						
						1948	1	8650	3.9	333						
						1950	2	13690	3.6	441	1	13320	507			
						1951	2	11250	3.9	432	1	15230	530			
						1952	2	9735	3.7	359	1	13290	476			
						1953	1	9670	4.1	397	1	15050	571	1	11053	421
						1955	1	9600	3.9	373	1	13980	518	1	11805	462
838880	92	206	11124	3.6	404	1947	80	11308	3.6	407	2	10375	361			
						1948	50	11567	3.7	424	3	11637	447			
						1949	30	11140	3.6	405	5	13592	499			
						1950	6	11162	3.6	419						
						1951	15	11724	3.8	443	2	14500	558			
						1952	12	11563	3.7	430	3	11617	448			
						1953	8	12671	3.5	448	6	12477	469	3	11140	426
						1954	2	13830	3.7	505	2	15625	516	1	14595	561
						1956	1	15400	3.6	552						
						1957	1	16150	3.7	602						
						1958	1	14490	3.7	535						
839307	1	3	11237	4.3	488	1953	1	12210	4.5	529	1	11690	423			
						1954	1	11020	4.2	463	1	12150	441			
						1955	1	10480	4.5	473	1	11950	428	1	10083	358
840866	1	1	14330	3.5	496	1958	1	14330	3.5	496	1	13110	486	1	12097	441
841476	8	19	11445	3.8	425	1952	4	11723	3.8	446	3	12483	462			
						1953	3	12160	3.6	440	3	14013	495	3	12371	442
						1954	7	10906	3.7	400	7	13551	483	7	12616	461
						1955	1	12210	3.6	439	1	10560	409	1	11729	428
						1956	2	12355	3.6	431	2	13455	485	2	11996	424
						1958	1	12210	3.9	479	1	11310	419			
						1960	1	14830	3.7	546	1	12500	450	1	11347	411
842876	82	211	13685	3.6	489	1951	1	11430	3.9	446						
						1952	2	16955	3.6	616	1	15550	573			
						1953	24	14468	3.6	519	20	11718	444	17	12577	460
						1954	32	14022	3.6	496	31	12396	455	24	12202	451
						1955	35	14055	3.6	508	35	12556	456	33	12002	457
						1956	31	13769	3.6	492	30	13237	478	29	12714	465
						1957	33	13384	3.6	475	32	12670	469	31	12623	458
						1958	28	13663	3.5	472	26	12732	481	16	12602	458
						1959	21	14105	3.5	500	21	12960	471	7	13795	500
						1960	4	12880	3.6	463	4	12858	462	2	12470	457
843274	1	1	14280	3.5	498	1952	1	14280	3.5	498	1	6410	223			
844122	33	86	12953	3.8	485	1953	5	15766	3.7	573	5	14006	508	5	13767	486
						1954	14	13214	3.6	473	13	12067	442	11	12251	447
						1955	17	13596	3.7	496	17	12849	467	13	12673	458
						1956	20	13063	3.6	476	19	12734	470	20	12349	444
						1957	10	14840	3.7	538	10	12700	493	10	12564	463
						1958	12	13361	3.8	511	12	12593	494	6	12455	476
						1959	7	11907	3.7	458	7	13224	495	4	12432	468
						1960	1	12830	4.0	511	1	12940	516			
845913	1	4	16490	3.1	498	1951	1	14040	3.2	452	1	11390	405			
						1952	1	14490	3.2	465	1	11160	391			
						1953	1	20700	2.7	563	1	14200	449	1	11227	390
						1956	1	16730	3.1	511	1	14240	473	1	13309	450
846979	64	118	12129	3.5	429	1952	1	10850	2.9	318	1	8700	370			
						1953	12	12451	3.5	427	12	12340	468	7	12358	459
						1954	18	12149	3.6	439	17	12482	452	16	12175	459
						1955	34	12078	3.6	431	33	13089	470	31	12471	446
						1956	20	12881	3.6	462	19	13183	480	19	12691	453
						1957	12	12347	3.5	433	12	13647	493	12	12466	449
						1958	7	11851	3.4	412	7	13199	494	5	12311	450
						1959	12	13640	3.5	480	12	12664	478	7	12610	468
						1960	2	10885	4.3	454	2	13445	455			
850298	43	97	12706	3.7	472	1951	4	12925	3.7	480	3	13523	468			
						1952	12	13570	3.8	514	8	12825	461			
						1953	24	12287	3.8	465	22	12699	466	19	12244	440
						1954	19	13447	3.8	509	19	12075	448	15	11844	437
						1955	12	12889	3.7	471	11	11946	430	10	11773	431
						1956	9	13392	3.6	487	9	13268	482	9	12355	450
						1957	3	14093	3.6	501	3	13723	493	3	13062	480
						1958	6	14495	3.6	518	5	13300	486	5	13071	484
						1959	8	13098	3.4	449	8	13165	479	6	13120	478
852063	267	594	12588	3.7	462	1947	15	14587	3.8	551						
						1948	4	12920	3.5	461						
						1949	13	13436	3.6	489	1	12670	487			
						1950	5	14174	3.5	495	1	13820	505			
						1951	26	12333	3.7	452	13	12472	456			
						1952	94	12883	3.7	476	60	13038	481			
						1953	134	13034	3.7	478	121	12633	463	102	12288	450
						1954	107	12244	3.7	454	101	12189	452	92	12121	448
						1955	78	12846	3.6	464	74	12763	467	66	12598	462
						1956	53	13259	3.7	484	51	12923	474	46	12290	449
						1957	37	12784	3.7	472	34	12997	483	31	12905	475
						1958	15	13267	3.7	494	14	12394	495	5	12973	483
						1959	11	14132	3.6	514	11	12621	477	5	11789	449
						1960	2	13590	3.7	496	2	11630	444			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
854723	38	69	12472	3.6	446	1953	1	13210	3.3	442	1	12830	451			
						1954	12	12004	3.7	436	12	11448	418	8	12669	449
						1955	14	12161	3.6	437	14	12746	459	12	12328	447
						1956	13	12311	3.8	459	13	13408	476	13	12500	451
						1957	9	11919	3.7	444	8	12750	461	7	12348	446
						1958	9	11590	3.6	421	8	12866	490	6	12648	465
						1959	9	13432	3.4	458	9	13166	487	4	13323	486
						1960	2	12015	3.7	438	2	12385	446	2	12263	439
856259	312	800	12529	3.5	442	1949	13	13455	3.6	480	4	15028	532			
						1950	87	13434	3.5	474	29	13236	485			
						1951	126	12734	3.6	451	61	12365	460			
						1952	154	12986	3.5	459	100	12665	462			
						1953	117	13196	3.5	461	103	12586	461	93	12147	442
						1954	115	12718	3.5	448	110	12361	457	98	12226	447
						1955	81	12543	3.5	433	75	12137	447	73	12048	442
						1956	50	12822	3.4	439	47	12426	459	42	12265	452
						1957	32	12878	3.5	451	29	12978	479	29	12758	473
						1958	15	14080	3.4	481	13	13035	495	9	12582	463
						1959	6	11988	3.8	461	5	12274	456	3	10137	383
						1960	4	10898	3.9	429	3	11973	438	2	11565	423
857482	2	7	11014	4.1	439	1952	1	12150	4.0	486	1	11860	433			
						1953	1	11350	3.8	435	1	14700	566			
						1954	1	13390	4.0	529	1	15170	522			
						1956	1	13210	3.9	510	1	15050	569	1	13810	524
						1958	1	12880	3.6	459	1	14830	560	1	13810	524
						1959	2	11165	4.0	440	2	13565	509	2	13969	521
859238	10	18	12896	3.6	457	1953	2	14295	3.6	510	2	11880	477	2	11069	394
						1954	4	12573	3.6	440	4	12955	471	2	11871	436
						1955	7	12601	3.6	442	7	13080	477	6	12177	446
						1956	3	10050	3.8	386	3	13647	499	3	13945	505
						1957	2	11070	4.3	473	2	13855	521	2	13309	491
864216	1	1	12030	4.3	517	1953	1	12030	4.3	517						
864818	80	221	12169	3.7	443	1951	4	12768	3.7	466						
						1952	20	11919	3.7	436	16	12825	461			
						1953	40	11722	3.7	427	37	12278	449	29	12274	450
						1954	48	12328	3.7	451	47	12501	462	39	12251	450
						1955	34	12358	3.6	450	35	12510	454	30	12370	446
						1956	31	12558	3.6	446	31	13142	480	30	12705	464
						1957	18	12701	3.6	465	18	13287	476	17	12940	475
						1958	11	12499	3.5	444	11	12993	495	8	12929	478
						1959	11	13678	3.5	488	10	12763	467	6	12826	471
						1960	4	11955	3.6	426	4	12363	444	4	12045	437
865322	1	1	11270	3.4	385	1953	1	11270	3.4	385	1	13020	479	1	13996	529
865323	16	30	12099	3.8	448	1954	10	11840	4.0	465	10	12249	459	6	12273	461
						1955	4	11785	3.6	428	4	13040	486	3	13531	511
						1956	5	14962	3.4	506	5	14262	525	5	14244	529
						1957	2	13490	3.4	449	2	13875	507	2	13566	519
						1958	3	11387	3.7	423	2	11445	422	2	11761	437
						1959	4	12955	3.6	460	4	11765	432	1	13113	510
						1960	2	11725	3.6	416	2	12845	455	2	11489	408
865325	50	95	13420	3.7	489	1953	1	19420	3.4	662	1	11990	444	1	11652	426
						1955	12	14815	3.7	542	12	13533	498	12	12549	461
						1956	23	14059	3.6	506	23	12956	479	21	12758	469
						1957	24	13265	3.6	477	23	12907	474	23	12850	470
						1958	15	12633	3.8	471	15	13267	495	14	12839	469
						1959	19	12984	3.7	477	18	14359	522	5	14312	520
						1960	1	12730	3.5	447	1	11020	392			
866063	25	69	11818	3.6	422	1950	3	11703	3.9	459						
						1951	12	10440	3.6	372	4	13460	480			
						1952	14	12833	3.5	449	9	13496	481			
						1953	11	11146	3.6	399	10	11622	410	7	11716	421
						1954	10	11545	3.5	406	9	12828	477	8	12511	461
						1955	8	12276	3.4	422	7	12453	447	6	12081	441
						1956	6	12095	3.3	403	5	12872	471	5	12341	447
						1957	3	11820	3.5	403	3	11933	435	3	11743	431
						1958	1	14910	3.3	497	1	11890	492			
						1959	1	13080	3.8	501	1	12320	458	1	13124	488
870204	18	49	10752	3.5	374	1946	3	9163	3.5	318						
						1949	8	11603	3.6	411	2	17220	642			
						1950	12	11522	3.5	400	2	15965	561			
						1951	7	12946	3.5	452	3	15170	534			
						1952	8	12170	3.5	429	5	14260	498			
						1953	3	12890	3.6	458	3	12360	452	2	13407	471
						1954	4	13793	3.6	490	4	12128	424	4	12257	447
						1955	3	12277	3.4	421	3	11687	418	3	12037	425
						1956	1	10990	3.3	367	1	10270	355	1	10955	383
870736	34	80	12049	3.8	454	1951	2	8485	3.6	307	2	8620	331			
						1952	7	10597	3.8	397	6	12047	438			
						1953	20	12428	3.7	460	18	12423	456	15	11652	430
						1954	14	11341	3.8	431	14	12677	464	12	12228	450



TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
						1955	17	11443	3.9	438	16	12715	459	15	12409	454						
						1956	8	11971	3.9	463	7	12756	473	7	12892	472						
						1957	4	13390	4.0	534	4	14288	522	4	13121	489						
						1958	3	10937	4.0	438	3	12460	476	1	10944	416						
						1959	5	12950	3.9	501	5	12832	440	2	13353	489						
871953	1	3	10893	3.7	397	1954	1	8710	3.6	313	1	13140	442									
						1955	1	10910	3.7	399	1	14860	516	1	12197	441						
						1956	1	13060	3.7	479	1	12750	480	1	10148	366						
874106	1	3	11045	3.7	409	1954	1	10440	3.5	365	1	11290	415									
						1955	1	11470	3.6	410	1	10940	406	1	10551	396						
						1956	1	11220	4.0	452	1	11370	432	1	11238	420						
877660	8	13	12864	3.5	442	1951	1	14630	3.2	475												
						1952	3	11440	3.4	381	1	13160	477									
						1953	1	11510	3.8	432	1	11920	462									
						1954	3	12597	3.3	406	3	11247	417	2	12241	464						
						1955	1	12760	3.3	422	1	12170	440	1	12099	441						
						1956	2	13770	3.6	497	2	13390	494	2	13707	499						
						1957	1	12010	3.7	450	1	12020	485									
						1959	1	16750	3.4	563	1	16430	577									
						077830	1	6	11045	3.7	405	1949	1	10920	4.1	444						
1950	1	11370	3.9	447																		
1951	1	11730	4.0	466																		
1953	1	9830	4.0	397																		
1954	1	14920	2.6	388	1							10750	383									
1956	1	7500	3.6	286	1							13450	488	1	10148	366						
878259	1	1	13210	3.7	489	1959	1	13210	3.7	489	1	12210	446	1	14246	543						
878665	57	160	12575	3.6	456	1952	6	11782	3.7	434	4	11948	454									
						1953	22	13770	3.7	504	20	13573	494	16	12551	455						
						1954	28	12916	3.7	474	26	12227	444	22	12941	469						
						1955	31	12654	3.6	454	28	12555	466	26	12595	459						
						1956	27	12413	3.6	447	27	12943	475	25	12692	464						
						1957	20	12851	3.7	472	18	13148	482	16	12752	469						
						1958	15	12878	3.7	471	14	12905	502	8	12613	463						
						1959	9	12532	3.6	454	9	12852	474	7	13058	492						
						1960	2	14360	3.5	503	2	13625	520	2	12503	469						
						880000	2	2	12185	3.6	444	1958	1	12310	3.9	484	1	12780	474			
												1960	1	12060	3.3	404	1	11970	423			
880210	61	170	11754	3.8	446	1951	1	13780	3.6	528												
						1952	13	11231	3.9	454	10	11388	408	22	12044	437						
						1953	27	12227	3.9	478	27	12701	466	28	12348	452						
						1954	35	11706	3.9	450	34	12531	463	26	12304	459						
						1955	31	11923	3.8	456	30	13106	487	19	12308	454						
						1956	20	11997	3.9	465	20	13192	479	16	13104	483						
						1957	16	12598	3.8	476	16	13932	506	11	12888	487						
						1958	14	13340	3.7	493	14	12757	485	3	13919	532						
						1959	10	11977	3.9	450	9	13022	477	1	13690	484						
						1960	3	14940	3.5	526	3	12830	479									
						882931	1	3	12683	3.5	439	1957	1	13300	3.4	446	1	15350	570	1	14508	543
1958	1	13380	3.7	499	1							14260	523	1	13810	524						
1960	1	11370	3.3	371	1							13450	539									
882939	1	3	14917	3.5	520	1952	1	13560	3.5	476	1	14360	536									
						1953	1	15470	3.4	528	1	14460	537									
						1954	1	15720	3.5	557	1	15160	568	1	14148	513						
887016	12	31	11084	3.3	368	1948	7	10560	3.4	359												
						1949	8	10050	3.4	338												
						1950	5	12404	3.3	405												
						1951	3	11353	3.2	362												
						1952	2	13270	3.2	429												
						1953	2	11380	3.4	387	1	10510	404	1	12393	472						
						1954	1	12320	3.6	447	1	9670	358	1	10671	398						
						1955	1	14760	3.4	509	1	10970	393	1	10508	391						
889678	85	218	11450	3.7	424	1956	1	8240	2.7	226	1	7410	223	1	7140	282						
						1958	1	14460	3.3	473	1	11510	419	1	12731	467						
						1951	8	12215	3.7	439	5	12757	480									
						1952	31	11768	3.8	444	21	11600	428									
						1953	45	11575	3.8	434	39	11306	418	33	11517	423						
						1954	44	11634	3.7	432	38	11488	423	31	11259	414						
						1955	35	11221	3.7	409	32	11735	428	25	11562	429						
						1956	23	11694	3.7	425	20	11778	438	20	11837	432						
						1957	15	12336	3.8	462	13	11848	433	11	11960	449						
						1958	12	12386	3.7	460	9	12574	465	10	12344	459						
						1959	3	12695	3.5	444	2	13395	514	3	13109	491						
						1960	2	13805	3.6	493	2	9020	329	2	12328	451						
						890181	3	3	14133	3.8	532	1954	1	16200	3.6	589	1	13170	490	1	13451	510
												1959	2	13100	3.9	504	2	11990	465	1	11096	420
						890463	34	63	12271	3.6	439	1955	4	10910	3.9	429	4	12785	475	4	12647	472
1956	20	12141	3.6	437	20							12869	465	18	12268	448						
1957	17	12524	3.5	439	17							13237	480	14	12683	458						
1958	12	11879	3.5	416	12							12835	494	6	11907	424						
1959	9	13559	3.7	495	9							13248	486	4	14241	524						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE'S IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						1960	1	14240	3.5	500	1	13300	536			
891850	17	39	12237	3.7	445	1952	2	13540	3.6	469	2	12560	477			
						1953	11	12601	3.7	465	11	13445	492	11	12502	458
						1954	9	12448	3.8	473	9	12173	446	7	12529	458
						1955	8	10260	3.7	379	8	12344	459	8	11828	437
						1956	7	13156	3.6	475	7	12073	443	7	11401	418
						1958	2	16510	3.7	604	2	15500	545	2	14770	532
894515	5	10	9635	3.5	338	1948	1	9430	3.7	349						
						1949	2	7945	3.4	272						
						1950	2	10220	3.8	381						
						1951	2	10120	3.5	357						
						1952	2	9345	3.6	335						
						1953	1	12270	3.5	433	1	12290	428	1	12143	436
894536	1	1	12000	3.8	453	1957	1	12000	3.8	453	1	13180	489	1	12775	481
894806	1	2	12580	3.6	454	1958	1	12280	3.5	435	1	13510	489	1	13505	484
						1959	1	12880	3.7	472	1	14500	550	1	16034	593
895911	1	1	10230	3.7	375	1957	1	10230	3.7	375	1	11680	437			
895914	5	15	12450	3.7	449	1953	2	11540	3.8	418	2	12250	445			
						1954	3	12697	3.9	476	3	11813	437	3	12212	462
						1955	5	11776	3.7	430	4	11180	414	4	11437	426
						1956	2	10830	3.8	414	2	11470	457	2	11189	420
						1957	2	12230	3.8	452	2	13450	521	2	13554	524
						1958	1	15630	3.3	508	1	12440	510			
897452	214	247	12099	3.8	453	1958	23	12794	3.7	473	17	12149	449	17	12150	457
						1959	154	12199	3.8	458	150	12418	472	79	12774	487
						1960	70	11815	3.8	441	65	12508	467	32	11750	442
900274	13	17	13504	3.8	507	1958	4	13479	3.7	493	2	14190	482			
						1959	10	13777	3.8	517	9	12856	469	4	11838	433
						1960	3	15903	3.6	582	3	13237	483	2	14072	504
900882	14	45	10961	3.5	387	1948	3	9570	3.5	336	1	13510	533			
						1949	6	10422	3.7	382	2	12975	475			
						1950	10	11764	3.6	417	5	11726	432			
						1951	5	13240	3.4	440	3	11207	408			
						1952	9	11582	3.6	415	4	12345	457			
						1953	2	11745	3.6	422	2	11790	420	2	9974	374
						1954	5	12046	3.4	417	5	12280	454	5	11428	424
						1955	2	10765	3.3	358	2	11295	424	2	10568	395
						1956	2	11350	3.4	376	2	11475	445	2	10650	411
						1958	1	10600	3.5	370	1	9560	401	1	9930	362
902551	1	3	10630	3.6	383	1952	1	13470	3.6	464						
						1953	1	8420	3.7	311						
						1954	1	10000	3.5	354						
902915	1	1	8890	3.8	337	1955	1	8890	3.8	337						
903193	3	3	9947	3.7	373	1956	1	11380	3.9	447	1	12560	488	1	12317	444
						1959	2	9250	3.7	337	2	12255	425	2	12655	451
903212	1	2	12615	3.5	443	1958	1	13770	3.5	482	1	10990	411			
						1959	1	11460	3.5	404	1	13350	487			
903887	8	23	12002	3.6	431	1947	4	13053	3.2	429						
						1948	3	12933	3.5	444						
						1949	1	10640	4.0	427						
						1950	3	12867	3.4	437	1	12380	479			
						1951	4	11673	3.6	417						
						1952	1	11780	4.0	476						
						1953	2	13025	3.1	404	2	10770	414			
						1954	1	15040	3.2	477	1	11680	405	1	11347	408
						1956	1	13530	3.6	492	1	11650	412	1	10072	352
						1957	2	8850	3.5	320	2	10735	364	2	11173	401
						1958	1	9360	3.9	367	1	12050	496			
904220	28	36	12703	3.7	470	1956	1	13490	4.2	572	1	11260	420	1	11238	420
						1957	3	10790	3.8	417	2	14155	528	2	11402	428
						1958	16	13289	3.7	486	11	13947	503	11	13474	484
						1959	12	12671	3.6	453	12	11998	437	5	11554	428
						1960	4	13713	3.7	504	4	12533	444	2	13811	503
904864	29	60	12011	4.0	481	1951	1	10830	3.9	427						
						1952	8	12605	4.1	520	6	12005	447			
						1953	17	12627	4.0	508	14	12905	469	9	12137	454
						1954	10	13564	4.0	537	9	12371	447	6	12464	451
						1955	12	12563	3.9	487	11	12366	444	9	12656	457
						1956	5	12034	3.9	466	5	12848	488	5	12550	467
						1957	5	10914	4.0	438	4	12030	440	3	12132	457
						1959	2	10155	4.4	445	2	13235	486	1	11881	432
905694	1	3	13573	3.9	538	1955	2	12930	3.9	507	2	10975	416	2	10497	391
						1957	1	14860	4.0	600	1	12680	483	1	11358	441
905788	1	2	12840	3.6	453	1959	1	11950	3.7	443	1	13140	493			
						1960	1	13750	3.4	463	1	14160	508	1	11772	423

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
906000	44	84	11700	3.9	446	1953	2	10555	4.0	422	2	11425	414	1	11565	423	
						1954	10	11466	3.9	446	9	11958	433	8	11900	429	
						1955	14	11579	3.8	438	13	11883	438	9	11378	419	
						1956	12	12129	3.7	445	11	13079	479	10	12082	443	
						1957	10	11902	3.9	464	10	12073	450	9	12578	470	
						1958	19	12408	3.7	458	18	12808	486	13	12657	471	
						1959	14	12360	3.8	462	13	12525	462	7	11900	445	
						1960	3	12813	3.6	464	3	13373	493	1	14486	554	
906710	1	1	13100	3.5	458	1954	1	13100	3.5	458							
906714	1	1	9760	3.8	366	1960	1	9760	3.8	366	1	12380	463				
908810	4	9	11057	3.8	419	1953	3	11663	3.9	459	3	11693	436	1	12600	477	
						1955	2	12320	3.6	440	2	11300	415	2	10775	393	
						1956	1	7980	3.2	259	1	11830	404	1	11216	383	
						1957	2	10025	3.6	348	2	10215	362	2	9549	349	
						1958	1	9310	3.7	345	1	12660	515				
910630	32	49	13054	3.8	493	1954	1	12060	4.7	561	1	12900	475	1	13080	486	
						1955	2	11935	3.7	444	2	13170	464	2	12127	435	
						1956	5	14086	3.7	523	5	13760	502	5	12417	466	
						1957	11	13486	3.7	503	11	13475	486	11	12593	459	
						1958	10	13811	3.8	526	10	12998	500	6	13521	516	
						1959	16	12596	3.8	478	15	12689	467	8	12423	465	
						1960	4	11518	3.9	442	3	12410	458	1	13701	525	
910774	1	1	12740	4.2	536	1959	1	12740	4.2	536							
910991	56	58	13024	3.8	494	1959	38	13021	3.8	495	38	12577	466	15	13160	485	
						1960	20	12882	3.8	487	17	12539	463	8	12689	461	
911488	412	652	11538	3.8	435	1951	36	11134	3.8	422	17	11409	413				
						1952	101	11784	3.8	450	65	11965	437				
						1953	117	11567	3.8	438	108	12180	447	90	11636	425	
						1954	121	11246	3.8	422	116	12192	450	106	11905	441	
						1955	100	11520	3.8	430	98	12362	459	86	12015	443	
						1956	108	11867	3.8	444	107	12824	477	95	12085	450	
						1957	96	11819	3.8	445	90	13028	490	85	12577	469	
						1958	72	11929	3.8	456	62	12556	480	47	12272	461	
						1959	83	11465	3.8	432	83	12268	459	53	12840	483	
						1960	18	11836	3.7	439	18	12052	450	5	11864	452	
913356	1	1	11990	3.1	374	1959	1	11990	3.1	374	1	11920	400	1	12546	456	
916471	2	3	12330	3.8	458	1956	1	12850	4.0	516	1	15510	550	1	14606	542	
						1958	2	12535	3.7	461	2	13690	507	2	12214	454	
919608	36	67	12508	3.8	471	1952	5	12420	4.1	503							
						1953	5	11980	4.0	477	5	12073	466	2	12143	465	
						1954	7	13420	3.4	458	7	12901	477	7	12694	469	
						1955	10	11764	3.8	440	9	11607	410	8	11959	435	
						1956	9	12379	3.7	450	8	12348	465	6	11986	439	
						1957	10	12107	3.7	447	10	12665	472	9	12669	456	
						1958	8	12540	3.6	447	6	12738	495	3	11598	425	
						1959	12	12728	3.7	475	12	12471	469	5	12777	494	
						1960	3	14283	4.0	563	3	11920	451	2	11374	423	
921070	11	11	10238	3.7	375	1959	4	10925	3.5	379	4	11898	464	3	11910	453	
						1960	7	9846	3.9	372	5	11468	415	6	12586	456	
922498	1	2	9820	3.5	342	1956	1	9350	3.4	321	1	13330	487	1	11118	403	
						1958	1	10290	3.5	362	1	11130	416	1	9865	359	
923209	2	2	9695	4.0	380	1954	1	9670	4.0	384	1	12260	439	1	12132	434	
						1957	1	9720	3.9	375	1	11800	432	1	11401	422	
923749	1983	4009	12668	3.9	493	1948	22	13705	3.8	523	6	13733	495				
						1949	88	13161	3.9	510	20	13294	487				
						1950	143	12999	3.9	510	51	13205	491				
						1951	171	12699	3.9	494	81	12583	465				
						1952	182	12731	3.9	501	113	12697	469				
						1953	221	13099	3.9	506	193	12636	466	164	12272	450	
						1954	307	12886	3.9	499	289	12460	462	257	12460	463	
						1955	421	12895	3.9	497	400	12852	472	371	12494	462	
						1956	495	13008	3.9	505	480	13128	487	438	12497	464	
						1957	514	12462	4.0	492	474	13120	492	452	12666	476	
						1958	547	13033	4.0	513	395	12840	487	352	12543	476	
						1959	699	12542	3.9	491	678	12679	480	425	12920	494	
						1960	199	12914	3.9	499	192	12647	478	66	12556	476	
923750	702	1474	12026	3.7	446	1948	8	13079	3.8	499	1	9770	341				
						1949	60	12647	3.8	477	14	13594	494				
						1950	68	12712	3.8	482	22	13684	481				
						1951	89	12275	3.7	456	37	12625	466				
						1952	104	12632	3.7	466	68	12851	469				
						1953	129	12751	3.7	470	114	12669	466	98	12337	450	
						1954	142	12529	3.7	466	139	12240	453	124	12190	450	
						1955	159	12274	3.7	451	154	12356	456	144	12098	446	
1956	170	12401	3.8	464	166	12498	478	152	12177	458							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. LB.	AV. LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1957					151	12764	480	158	12332	460
						1958	157	12194	3.8	458	136	12659	498	107	12242	461
						1959	170	11671	3.7	443	164	12175	463	88	12521	480
						1960	58	12222	3.7	458	56	12404	473	22	12154	462
925144	1	1	13290	4.3	566	1958	1	13290	4.3	566						
925394	1	2	9370	3.3	303	1956	1	9430	3.3	310	1	11940	425	1	10072	352
						1957	1	9260	3.2	295	1	10920	361	1	10464	363
925596	4	8	12114	3.7	446	1952	1	11280	4.0	447	1	9450	355			
						1953	2	12770	3.9	493	2	11710	452			
						1954	2	12350	3.8	456	1	10520	373	1	11925	453
						1955	1	7790	4.0	268	1	10440	367	1	11140	412
						1957	2	11280	3.5	396	2	12345	464	1	10671	395
926568	26	52	11019	3.6	400	1949	1	8410	4.1	340						
						1950	12	10768	3.7	396	2	13460	479			
						1951	7	10789	3.7	403	4	12608	451			
						1952	15	10977	3.7	408	3	11867	423			
						1953	7	12126	3.8	462	5	12088	450	5	12363	457
						1954	6	11317	3.7	414	5	11612	399	3	11761	442
						1955	4	9278	3.6	335	4	11500	404	3	11470	414
						1956	2	8555	3.6	311	1	9260	344	1	9036	326
929216	108	165	11763	3.7	428	1954	19	12405	3.7	452	17	12091	442	14	12126	445
						1955	32	10834	3.6	393	31	12149	456	29	11991	447
						1956	20	11654	3.6	422	20	12869	475	17	12282	447
						1957	16	10814	3.6	377	15	12169	456	15	11622	451
						1958	30	11584	3.7	428	26	11928	445	18	12002	448
						1959	39	12314	3.7	453	36	12762	478	19	12087	453
						1960	9	13273	3.8	501	7	12591	487	2	12759	468
930692	3	8	11138	3.8	416	1955	1	9490	3.7	354	1	14670	525			
						1956	1	13740	3.7	505	1	13770	487	1	12154	421
						1957	1	10020	3.9	391	1	11600	455	1	12143	456
						1958	1	13720	3.8	522	1	11230	426	1	12382	475
						1959	5	10957	3.8	410	5	11717	446	2	11609	441
						1960	1	8360	4.0	335	1	10510	404			
932577	5	6	12808	3.7	455	1957	1	13450	3.6	483	1	11580	452	1	13592	496
						1958	3	10900	3.9	397	3	13770	516	3	12361	461
						1959	2	14970	3.5	516	2	13750	517	2	13778	516
933199	1	3	13863	3.9	547	1955	1	13490	3.9	531	1	13600	492	1	12197	441
						1958	1	13380	4.2	559	1	11940	491			
						1960	1	14720	3.7	551	1	10320	401			
934021	145	262	12661	3.7	466	1954	5	14946	3.7	549	5	15674	588	4	14246	524
						1955	35	12595	3.7	459	35	13126	483	35	12907	477
						1956	58	13037	3.7	473	57	15464	486	52	13294	484
						1957	52	12347	3.7	453	51	15563	491	52	13017	476
						1958	45	13147	3.7	484	40	13455	514	30	13260	482
						1959	47	12620	3.6	465	47	12563	455	11	12396	464
						1960	20	13529	3.7	506	20	12816	464	10	12932	475
934488	1	2	9910	3.5	350	1955	1	11960	3.5	422	1	11440	415	1	10268	370
						1956	1	7860	3.5	278	1	10760	406	1	11118	403
939726	294	603	11499	3.8	435	1949	1	12100	3.9	473	1	12500	487			
						1950	15	11400	3.7	427	9	12163	447			
						1951	33	12063	3.8	451	19	13172	471			
						1952	54	12043	3.7	450	32	12734	475			
						1953	66	11808	3.8	445	59	11828	443	53	11627	432
						1954	82	11756	3.7	439	80	11878	440	69	11714	451
						1955	67	12123	3.8	456	64	11763	434	61	11884	459
						1956	67	11546	3.9	443	64	11992	442	58	11855	456
						1957	61	11256	3.9	433	58	11492	425	52	11597	452
						1958	55	12173	3.7	455	45	12067	458	32	11975	446
						1959	75	12584	3.8	483	71	12578	459	51	12342	464
						1960	27	12538	3.6	471	24	12028	454	8	11749	457
941567	37	96	11471	3.9	442	1952	4	12410	3.8	465	4	12823	479			
						1953	8	10433	3.6	394	8	12675	467	6	12437	449
						1954	16	11548	3.9	450	16	12318	452	14	13006	478
						1955	19	11766	3.9	466	19	11504	429	13	12245	449
						1956	18	11241	3.8	426	17	12451	458	14	12151	449
						1957	13	12129	3.9	469	12	12606	467	10	12678	470
						1958	8	12098	3.8	465	7	12797	490	6	12939	484
						1959	7	11810	3.9	457	7	12467	468	5	12428	472
						1960	3	10280	3.7	384	3	10900	408	2	10715	400
941809	2	6	12964	3.8	495	1953	1	12150	4.0	490						
						1954	1	12860	3.6	462	1	11860	441	1	12328	441
						1955	1	13590	3.6	491	1	13100	511	1	11445	414
						1956	1	13590	3.6	489	1	12960	505	1	12513	480
						1957	1	12630	3.6	460	1	16090	566	1	14900	571
						1958	1	16220	3.7	593	1	16280	601	1	15369	577
942654	1	1	11580	3.8	437	1954	1	11580	3.8	437						
943293	21	45	15438	3.8	580	1954	3	16283	4.0	645	3	14693	535	3	14054	523
						1955	5	15554	3.8	587	5	13374	495	4	13355	499
						1956	8	17588	3.7	649	8	14879	569	6	14539	537
						1957	10	16194	3.7	601	10	15844	635	10	15361	575

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1958	7	15450	3.5	542	7	11600	467	3	13200	501
						1959	11	15215	3.9	584	11	13704	516	7	14983	554
						1960	1	18810	3.6	680	1	14150	526			
943749	124	224	12909	3.6	464	1954	6	12519	3.7	448	8	12560	448	7	12392	452
						1955	28	14097	3.6	503	28	13326	491	24	13036	481
						1956	45	13328	3.6	476	45	13399	490	41	12839	468
						1957	45	13022	3.6	468	44	13377	486	41	12803	468
						1958	39	13363	3.7	487	37	12709	480	26	12441	449
						1959	42	12612	3.6	456	39	12582	464	16	13400	494
						1960	17	13037	3.6	465	16	12614	459	7	11685	452
946406	6	10	11043	3.9	433	1956	1	12490	4.3	536	1	10400	379			
						1957	3	10790	4.0	437	3	10297	380	3	9374	355
						1958	4	10943	3.8	416	4	10600	553	1	12917	512
						1959	1	11170	3.7	418	1	11190	445	1	13985	549
						1960	1	12910	3.9	498	1	14670	561			
949041	385	836	11859	3.6	426	1949	18	12401	3.7	454	4	12110	459			
						1950	80	12707	3.6	452	21	12924	472			
						1951	115	11981	3.5	424	42	12379	455			
						1952	115	12049	3.6	428	55	12422	456			
						1953	83	12062	3.6	435	70	12402	456	55	11556	421
						1954	82	11713	3.6	422	78	12277	454	66	12169	448
						1955	58	11678	3.5	411	53	12128	443	47	11930	437
						1956	65	12281	3.6	440	60	12498	463	48	11921	443
						1957	72	12018	3.6	436	64	12550	470	57	12184	454
						1958	72	12508	3.6	451	62	12142	466	46	12091	455
						1959	54	12072	3.7	459	53	12119	454	20	12517	466
						1960	22	11624	3.7	438	21	11471	428	13	10955	410
949156	3	3	10583	3.7	393	1956	1	10430	3.7	388	1	11700	402			
						1959	2	10660	3.7	396	2	12280	455	1	12938	489
949159	28	34	12728	3.6	453	1957	6	12005	3.6	436	6	11552	440	4	12222	455
						1958	5	12592	3.8	472	5	12658	505	3	12415	479
						1959	17	13237	3.5	468	17	12655	473	13	12134	458
						1960	6	11275	3.6	399	5	14536	515	1	12470	470
949223	2	2	11980	3.2	381	1957	1	11160	3.3	373	1	12540	447			
						1960	1	12780	3.0	389	1	9370	330			
950295	21	41	12722	3.7	472	1954	5	13410	3.7	492	3	13947	504	2	11598	436
						1955	8	13235	3.7	490	8	12991	476	8	12707	462
						1956	6	12765	3.7	469	6	13650	494	6	13111	460
						1957	7	12035	3.7	446	6	13200	485	6	12404	456
						1958	5	13812	3.8	516	5	14290	527	5	13440	476
						1959	7	12811	3.5	450	7	12753	466			
						1960	5	13334	3.9	526	5	12856	467	4	12285	441
950444	1	2	13745	3.8	527	1959	1	13850	3.8	531	1	13150	467			
						1960	1	13640	3.8	523	1	13190	467	1	11772	423
950648	2	11	13756	3.4	466	1951	1	16800	3.2	546	1	13470	497			
						1952	3	12810	3.4	456	1	15140	545			
						1953	1	13810	3.3	450	1	15430	550			
						1954	2	12590	3.4	425	2	12560	445	1	15167	463
						1955	1	17020	3.1	524	1	13740	513	1	13080	471
						1956	1	12510	3.7	462	1	12290	461	1	12361	446
						1957	2	14410	3.5	498	2	13075	489	2	12567	441
950707	18	31	12467	3.7	459	1955	2	13195	3.5	466	2	12600	425	2	11805	414
						1956	2	12665	3.5	444	2	13090	476	2	12557	440
						1957	8	12504	3.7	462	7	13724	476	7	13968	515
						1958	7	12757	3.6	459	6	13422	486	5	13239	472
						1959	9	12330	3.6	447	9	13021	472	4	13009	472
						1960	3	12525	3.8	477	3	13017	517	1	15554	555
950725	1	1	15190	3.4	519	1960	1	15190	3.4	519						
952029	72	122	13462	3.6	480	1955	4	15350	3.5	535	4	16510	572	4	14770	541
						1956	17	12857	3.6	459	17	12941	471	17	12443	452
						1957	25	13412	3.6	480	23	12810	465	22	12487	454
						1958	32	14395	3.6	519	30	13240	498	25	12810	466
						1959	55	13464	3.6	481	31	12869	472	12	13191	465
						1960	11	11705	3.4	401	11	12656	456	4	11925	450
952437	2	2	14360	3.8	531	1958	1	12750	4.0	509	1	14530	526	1	14268	536
						1959	1	15970	3.5	552	1	8440	346	1	16606	431
952603	1	1	9440	3.1	296	1958	1	9440	3.1	296	1	9700	345			
952618	4	4	9568	3.4	316	1958	1	10810	3.2	346	1	9740	326	1	8676	260
						1959	1	6400	3.5	221	1	10200	332			
						1960	2	10530	3.4	349	1	9560	315	2	11892	384
953322	403	792	11632	3.8	436	1950	7	10519	3.9	410	1	12050	469			
						1951	25	12480	3.8	474	16	12375	446			
						1952	49	12165	3.8	464	35	12524	455			
						1953	67	12316	3.8	467	62	11954	440			
						1954	104	12160	3.7	454	100	11684	430	55	12255	446
						1955	132	11660	3.8	437	123	11801	432	85	11461	424
						1956	110	12152	3.8	457	102	11947	442	113	11709	455
						1957	94	11257	3.8	425	84	11846	435	96	11781	456
						1958	95	11422	3.7	421	82	11670	449	81	11730	456
						1959	86	12527	3.7	464	83	12724	469	58	11635	455
														56	12805	474

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						1960	HOLSTEIN									
							23	12637	3.6	468	22	12063	440	10	12074	450
954932	2	5	9946	3.8	369	1950	1	10800	4.1	437						
						1951	1	10610	3.2	336	1	9010	306			
						1952	1	9650	4.2	401						
						1953	1	8680	3.4	291	1	9400	344	1	9025	308
						1954	1	9710	3.4	331	1	10380	408			
955493	138	262	11978	3.8	452	1952	2	14745	3.4	491	1	11680	373			
						1953	9	12020	3.9	464	9	12031	448	6	12014	435
						1954	22	11418	3.8	427	22	12521	455	21	12379	454
						1955	28	11551	3.8	435	28	11981	437	23	12159	443
						1956	36	12548	3.8	474	35	12629	454	30	11696	430
						1957	42	11731	3.9	454	39	12720	476	38	12393	455
						1958	47	12236	3.8	459	42	12319	471	32	12232	456
						1959	58	12060	3.7	452	56	12455	463	37	12359	463
						1960	16	12733	3.8	485	18	12794	489	8	12009	452
959466	3	7	14476	3.9	559	1953	1	16220	3.9	636	1	12170	476	1	11750	457
						1954	1	16710	3.9	626	1	13300	528	1	13701	541
						1955	1	15850	3.8	595	1	12610	492	1	13211	521
						1956	1	15770	3.9	617	1	14200	611	1	12284	492
						1957	1	17170	3.5	605	1	12950	491	1	14628	525
						1958	1	13500	3.9	530	1	10810	456			
						1959	1	12080	4.0	489	1	12280	446	1	14246	543
962404	1	5	12886	3.6	461	1954	1	13350	3.6	480	1	13190	438	1	14432	493
						1955	1	13040	3.6	467	1	14380	438	1	15369	522
						1956	1	14000	3.7	516	1	17310	520	1	14726	497
						1957	1	12540	3.5	440	1	16980	585	1	15783	540
						1958	1	11500	3.5	403	1	13060	528			
964278	70	70	13268	3.7	486	1959	31	13327	3.7	493	31	12582	482	21	12848	487
						1960	39	13221	3.7	481	39	12807	480	10	11516	436
967331	1	2	11130	3.5	390	1958	1	10860	3.7	405	1	12010	495			
						1959	1	11400	3.3	374	1	14260	469	1	14170	510
968544	45	58	11372	3.9	435	1957	14	11413	3.9	446	11	14418	519	11	13471	492
						1958	15	11451	4.0	457	12	13094	494	11	12625	465
						1959	20	10686	3.8	406	20	12187	443	4	12287	456
						1960	9	13481	3.5	473	9	12704	462	4	11993	433
968786	1	2	14400	3.2	465	1954	1	13730	3.2	444	1	12510	446	1	14453	534
						1955	1	15070	3.2	485	1	15060	533	1	14464	501
969667	53	86	12661	3.9	485	1953	1	9430	3.9	366	1	12030	449	1	12699	469
						1954	3	14533	3.8	552	3	13443	484	1	12884	474
						1955	11	13259	3.8	508	11	12723	479	8	12778	468
						1956	8	11555	3.8	443	8	12465	453	7	12347	443
						1957	16	12030	3.9	470	15	12661	475	16	12196	450
						1958	19	12766	3.9	494	18	12659	486	13	12041	456
						1959	21	12832	3.8	491	21	13030	485	6	12871	476
						1960	7	14013	3.9	536	6	13610	511	2	13941	527
969669	30	54	12528	3.8	470	1954	2	14655	3.9	576	2	12295	439	1	13189	457
						1955	4	12533	3.7	459	4	10988	390	4	11584	418
						1956	6	11173	4.0	438	6	11953	440	3	11754	433
						1957	9	12090	3.6	440	9	11964	447	9	11588	434
						1958	7	13747	3.7	514	6	13385	517	5	13165	486
						1959	19	12907	3.7	481	19	12890	476	12	12617	467
						1960	7	12016	3.7	448	7	12624	464	3	12699	474
972712	1	1	12400	3.3	408	1959	1	12400	3.3	408	1	10520	398	1	12546	456
973824	1	1	18210	4.1	745	1959	1	18210	4.1	745	1	14110	556	1	12034	464
975137	9	10	13802	3.6	483	1959	9	13774	3.5	480	9	12440	456	4	12508	450
						1960	1	10660	4.4	467	1	11130	419	1	9396	349
975683	51	82	11686	3.8	449	1953	4	12603	3.6	459	4	12378	461	3	12782	462
						1954	6	11572	3.8	437	6	11782	437	5	12474	463
						1955	8	13076	3.8	494	8	12345	459	7	12264	460
						1956	15	11639	3.8	437	15	13246	487	10	12443	458
						1957	11	12597	3.9	496	11	13789	526	11	12863	485
						1958	18	12533	3.8	475	16	12560	481	13	12398	459
						1959	15	11607	3.7	452	15	12201	452	10	12042	453
						1960	5	12456	3.8	477	5	12750	478	1	11619	428
976710	2	3	9865	3.9	379	1958	1	10170	4.0	405	1	14690	559	1	15576	578
						1959	2	9670	3.8	365	2	13405	493	1	15058	488
978712	271	527	10802	3.7	400	1950	1	11370	3.3	380						
						1951	11	11090	3.7	410	3	13050	493			
						1952	42	11014	3.8	417	22	12414	445			
						1953	55	11296	3.7	414	45	11742	431	43	11885	436
						1954	102	10715	3.7	398	97	11526	422	83	11516	422
						1955	106	10864	3.7	404	100	11721	432	90	11721	432
						1956	82	10975	3.7	409	72	12475	460	68	11779	438
						1957	40	10775	3.7	399	38	11711	434	35	11879	443
						1958	38	11092	3.7	410	34	12079	452	27	11714	437



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AV. MILK LB.	AV. FAT LB.
HOLSTEIN																
						1959	43	12043	3.7	444	41	12495	464	30	12474	468
						1960	9	12577	3.7	457	8	12674	445	3	13367	513
978750	84	150	11645	3.7	434	1952	2	10700	4.0	428	1	11310	419			
						1953	11	11681	3.6	446	10	11709	436	7	11750	428
						1954	16	12051	3.8	454	15	12674	467	14	12533	459
						1955	20	12246	3.7	450	18	12110	456	16	12678	472
						1956	20	10947	3.8	417	19	12539	469	18	11754	439
						1957	26	11450	3.7	427	26	12531	468	22	12284	459
						1958	24	12129	3.7	445	22	12278	464	18	11959	452
						1959	29	12017	3.6	434	28	12579	466	12	12089	452
						1960	2	13035	3.6	464	2	14840	553	2	13669	524
979087	241	341	12132	3.9	460	1954	3	12257	3.8	467	3	13073	451	2	12704	450
						1955	31	12173	3.9	472	29	12627	466	24	12615	469
						1956	37	11846	3.8	450	37	12655	471	30	12010	445
						1957	48	11641	3.8	446	46	12719	478	42	12349	461
						1958	90	12564	3.9	469	73	12883	488	56	12257	460
						1959	99	12219	3.6	466	97	12210	461	53	12529	474
						1960	33	11406	3.8	434	33	11913	451	12	11615	441
981308	11	16	12019	3.5	424	1954	1	16550	3.7	612	1	15830	550			
						1955	1	12990	3.8	491	1	14640	526	1	14715	507
						1956	1	12270	3.7	460	1	16620	584	1	14980	531
						1957	3	9313	3.5	327	3	11600	433	3	11118	404
						1958	7	12696	3.5	445	4	13173	500	5	12195	452
						1959	2	11000	3.6	397	2	10380	383			
						1960	1	15680	3.6	559	1	13140	464	1	13690	484
981433	1	2	11285	3.5	391	1956	1	11100	3.5	388	1	12220	477			
						1957	1	11470	3.4	393	1	13210	491	1	12775	481
982292	42	83	12072	3.6	438	1954	8	11829	3.8	448	8	13086	482	7	13107	493
						1955	22	12328	3.6	446	22	12508	462	17	12963	476
						1956	16	12829	3.5	448	16	13506	489	16	13062	476
						1957	15	12119	3.7	443	14	13109	485	14	12924	475
						1958	13	11918	3.6	429	10	12907	495	6	13314	473
						1959	7	13656	3.6	497	6	15070	553	3	14781	526
						1960	2	11860	3.8	447	2	12545	449	1	11303	472
983740	1	1	13990	4.0	556	1959	1	13990	4.0	556	1	13690	523	1	12938	489
984717	82	131	12632	3.6	454	1955	14	12007	3.7	445	14	12356	464	12	13328	493
						1956	31	13279	3.6	472	30	13493	498	28	13011	477
						1957	26	13276	3.6	482	25	13527	505	23	13331	496
						1958	26	12538	3.5	443	26	12487	474	13	12516	452
						1959	26	12910	3.7	471	26	12803	463	8	13389	487
						1960	8	10200	3.5	357	7	12149	448	3	11721	429
984803	4	5	14670	3.7	537	1957	2	14560	3.6	526	2	12405	452	2	12317	441
						1958	1	13840	3.7	518	1	10730	383	1	10246	353
						1959	2	16615	3.7	607	2	15965	525	1	14628	542
988944	28	59	11112	3.8	419	1950	4	10695	3.8	407	2	13180	470			
						1951	16	11523	3.9	451	7	12569	482			
						1952	12	9979	3.8	378	7	12723	458			
						1953	8	10609	3.9	412	7	11594	419	5	11530	418
						1954	4	10593	3.7	391	4	12860	461	4	12895	465
						1955	5	11552	3.9	443	5	13122	472	4	13314	483
						1956	4	11723	3.6	415	4	13280	471	4	13284	445
						1958	4	14220	3.5	494	4	14115	523	1	12535	435
						1959	1	12320	3.8	469	1	12780	487			
						1960	1	15560	3.6	563	1	12660	477			
993764	3	3	10700	3.8	405	1959	3	10700	3.8	405	3	12290	441	1	13734	500
996245	1	1	14680	3.8	560	1960	1	14680	3.8	560	1	16170	617	1	14257	524
997481	68	112	12739	3.7	466	1952	2	10285	4.1	408	1	15050	501			
						1953	7	13320	3.4	454	7	13370	475	5	12315	446
						1954	9	12342	3.6	447	9	12652	471	8	12410	458
						1955	10	12590	3.7	463	10	12071	450	9	12110	447
						1956	12	11973	3.6	435	12	13074	477	11	12606	465
						1957	20	12273	3.6	446	20	12422	462	17	12058	444
						1958	17	12765	3.9	490	15	13073	498	12	12505	464
						1959	27	13468	3.6	488	25	13071	487	16	13210	488
						1960	8	12718	3.7	470	8	13174	478	3	12593	461
998194	276	650	11932	3.5	419	1950	6	15146	3.6	546	5	13254	468			
						1951	54	12032	3.5	415	26	15005	488			
						1952	71	11950	3.6	424	47	12372	454			
						1953	99	12335	3.5	436	86	12206	448	77	11667	426
						1954	117	12077	3.6	429	110	12062	446	101	12100	445
						1955	102	12063	3.6	427	99	12331	455	77	12049	445
						1956	88	12490	3.5	438	81	12798	475	71	12236	455
						1957	55	12299	3.5	456	51	12663	474	47	12164	450
						1958	31	12272	3.5	435	26	12505	479	19	12178	460
						1959	22	12446	3.6	451	22	11789	459	17	11979	475
						1960	5	13898	3.6	504	5	13232	478	3	11747	441
999938	1	1	16640	3.4	565	1953	1	16640	3.4	565	1	14070	530			
1000390	84	129	12612	3.8	479	1956	14	13782	3.9	533	14	13260	484	12	13072	481
						1957	31	12009	3.9	464	28	13106	468	27	12849	466
						1958	31	12608	3.8	481	28	12702	477	21	12698	467

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
1000568	227	473	11259	3.7	418	1959	43	13307	3.8	500	40	12515	458	12	12831	475						
						1960	10	13343	3.7	494	9	12260	445	7	12692	458						
						1951	4	10865	3.8	405	1	15440	553									
						1952	30	12247	3.8	467	18	12474	473									
						1953	59	11533	3.7	426	52	12218	454	46	12034	444						
						1954	94	11349	3.7	421	88	11474	423	71	11470	476						
						1955	84	10917	3.7	403	77	11552	425	70	11584	427						
						1956	59	11649	3.6	422	53	12041	451	49	11767	436						
						1957	42	11480	3.7	424	37	12398	453	37	12242	450						
						1958	38	11646	3.7	426	30	11765	433	21	11546	425						
1959	53	11895	3.7	436	50	12097	448	34	12199	449												
1960	10	11752	3.4	410	10	11711	418	3	11845	428												
1001512	24	34	11948	3.8	458	1957	2	10720	3.8	409	2	12040	460	1	14508	534						
						1958	11	12333	3.8	473	9	13104	482	7	12130	444						
						1959	15	12390	3.8	469	15	13153	488	9	13266	495						
						1960	6	10822	3.9	426	5	12570	483	3	13531	516						
1003598	38	68	13125	3.7	489	1952	1	12950	3.9	508												
						1954	2	12900	3.4	440	2	12845	458	1	12884	474						
						1955	6	12198	3.8	455	6	11677	427	5	11591	423						
						1956	9	14700	3.5	520	9	12874	476	8	12831	465						
						1957	12	13740	3.9	535	12	13492	501	12	13214	493						
						1958	15	13450	3.8	509	15	12756	479	10	13219	493						
						1959	17	13371	3.7	494	16	12642	479	9	12082	457						
						1960	6	13763	3.7	511	6	14233	520	3	13927	527						
						1003988	1	5	12050	4.1	495	1955	1	12250	4.2	513	1	15850	523	1	14464	465
												1956	1	11120	4.2	463	1	12900	481	1	14541	514
1957	1	13130	4.1	537	1							15250	542	1	11543	433						
1959	2	11875	4.0	480	2							11945	443									
1004137	15	21	14844	3.5	526	1955	1	18660	3.3	610												
						1956	5	14496	3.3	478	5	16024	576	5	14901	529						
						1957	2	15690	3.4	526	2	18315	674	2	16143	565						
						1958	3	14990	3.8	570	3	13637	535	2	15871	575						
						1959	10	14260	3.6	515	10	12608	467	7	13846	570						
1004232	32	34	12377	3.7	457	1958	2	9665	3.9	372	2	9430	342	2	10224	379						
						1959	26	12595	3.7	468	26	12374	457	7	12635	459						
						1960	6	12262	3.6	438	6	11782	428	5	11605	425						
1004496	4	4	13100	3.9	504	1959	4	13100	3.9	504	4	12470	463	3	13952	517						
1005212	1	1	11730	4.2	497	1957	1	11730	4.2	497	1	10250	406	1	12459	400						
1005575	22	31	12431	3.6	440	1958	5	13772	3.6	492	5	12582	471	5	12834	463						
						1959	19	12221	3.5	428	19	12743	456	7	12104	437						
						1960	7	12673	3.5	446	7	12420	441	4	13593	488						
1006219	3	4	12792	3.5	447	1958	1	14240	3.3	463	1	13520	493									
						1959	1	12320	3.4	420	1	13060	492									
						1960	2	13580	3.6	484	2	10670	411	1	12829	475						
1007357	11	16	12998	3.7	486	1955	1	13600	3.3	455	1	13970	483									
						1956	2	13355	3.7	493	2	14930	501	2	14159	509						
						1957	2	14055	3.7	519	2	13375	480	2	12966	472						
						1958	1	15320	3.7	569	1	13210	475	1	13505	484						
						1959	8	13020	3.8	495	8	13085	486	6	14315	532						
						1960	2	14270	3.9	548	1	14920	506									
1007680	1	1	12660	3.6	462	1958	1	12660	3.6	462	1	13060	444	1	16550	588						
1007952	1	3	10753	3.5	373	1952	1	12290	3.3	405	1	10490	352									
						1953	1	11360	3.6	413	1	10620	388									
						1954	1	8610	3.5	300	1	10060	359	1	11347	408						
1008622	15	15	13537	3.7	505	1958	1	13340	3.9	521	1	14450	524	1	14639	532						
						1959	12	13298	3.7	493	12	13100	483	6	13516	495						
						1960	2	15070	3.8	570	2	12355	451	1	15554	553						
1008796	1	1	10230	3.4	345	1959	1	10230	3.4	345	1	10050	374	1	10290	403						
1009371	4	5	12174	3.9	471	1959	3	13067	3.9	511	3	12123	464	3	14246	543						
						1960	2	11120	3.8	424	2	11910	406									
1009372	1	3	13573	3.3	441	1957	1	18430	3.1	375	1	14810	518	1	15781	540						
						1958	2	11145	3.4	374	2	12055	461	1	15173	534						
1013415	1	2	18270	3.6	664	1959	1	18100	3.6	659	1	16030	611	1	15707	592						
						1960	1	18440	3.6	669	1	17190	640									
1013716	1	1	15880	3.8	603	1960	1	15880	3.8	603	1	14090	544									
1014925	8	10	13148	3.7	469	1956	1	14400	3.8	543	1	13170	465	1	11707	447						
						1957	1	5530	4.8	268	1	12300	434	1	12568	492						
						1958	5	13826	3.7	507	4	12588	463	4	12849	478						
						1959	3	12270	3.5	407	3	12550	467	2	13200	471						
1016212	1	1	11020	3.5	389	1958	1	11020	3.5	389	1	11930	411	1	10965	391						

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
1016607	1	1	13730	3.4	466	1953	1	13730	3.4	466	1	12740	467	1	12600	477
1019279	13	37	10645	3.8	402	1951	1	10790	4.0	454	1	10110	366			
						1952	7	10737	3.6	390	6	11112	374			
						1953	7	10826	4.1	435	6	11375	430	4	12276	431
						1954	9	10810	4.0	429	8	11010	413	5	12147	447
						1955	6	10762	3.9	419	5	10446	399	4	10287	405
						1956	4	11743	4.0	463	4	11240	424	4	12246	453
						1957	2	9190	3.9	354	1	11410	419	2	11664	401
						1959	1	12100	3.4	415	1	14700	509	1	13680	465
1019538	2	3	13888	3.5	482	1956	1	10960	3.3	361	1	10540	371	1	9799	351
						1958	1	15810	3.7	589	1	13420	469	1	12197	443
						1959	1	17820	3.5	616	1	14020	464	1	14170	510
1020277	7	8	10125	3.8	384	1958	2	9530	3.9	374	1	13530	512	1	12644	469
						1959	4	9893	3.8	372	4	10475	398	2	11091	398
						1960	2	10540	3.7	390	2	9635	365	2	9385	361
1020385	41	63	11797	3.6	425	1953	18	11952	3.6	430	15	12565	453	11	12349	446
						1954	6	10007	3.7	371	6	12572	469	5	11879	439
						1955	7	11449	3.7	419	6	12498	464	4	12140	448
						1956	4	13133	3.6	467	4	14465	535	4	12928	488
						1957	10	12058	3.7	449	9	13633	523	8	12906	486
						1958	10	12288	3.6	444	10	13171	489	8	12477	469
						1959	6	10795	3.9	417	6	11735	440	5	12893	487
						1960	2	12285	3.4	420	2	11900	464			
1020996	6	15	13052	3.7	484	1954	1	12810	3.6	463	1	11240	412	1	11794	424
						1955	4	14750	3.7	549	4	15083	531	3	13592	469
						1956	4	12398	3.6	450	4	15878	555	3	15086	534
						1957	3	13717	3.6	492	3	15227	557	3	15024	542
						1958	1	12840	5.0	637	1	11950	488			
						1959	2	12380	4.0	487	2	13185	478	2	14001	525
1021571	80	127	12710	3.7	469	1955	6	13558	3.7	505	6	14390	515	4	13116	476
						1956	12	12864	3.7	470	11	13666	505	10	13661	493
						1957	30	12786	3.7	474	29	13282	484	29	12609	455
						1958	30	13455	3.6	503	26	13475	498	23	13620	495
						1959	34	12709	3.6	461	33	12641	460	10	12796	470
						1960	15	12057	3.6	434	15	13115	474	9	12903	463
1022095	22	27	12292	3.8	459	1957	2	12405	3.8	467	2	12360	460	2	12819	472
						1958	9	12070	3.7	448	8	12661	458	8	12230	446
						1959	12	12006	3.8	458	12	12363	452	5	12914	476
						1960	4	13538	3.7	493	4	14090	516			
1023039	10	16	14629	3.6	526	1957	1	15420	3.5	537	1	12350	424	1	12895	441
						1958	6	15337	3.7	558	5	14576	531	5	15784	490
						1959	8	14523	3.7	527	8	13739	506	1	15097	555
						1960	1	11870	3.6	424	1	15206	542	1	13571	473
1023059	1	2	17165	3.7	628	1954	1	18200	3.5	628	1	17250	622	1	14530	525
						1955	1	16130	3.9	627	1	12150	391	1	14519	549
1024453	7	8	13299	3.6	482	1958	3	13490	3.6	495	3	12033	465	3	11485	457
						1959	3	12260	3.6	432	3	11403	419	2	13576	486
						1960	2	14300	3.8	531	2	12975	489	2	12661	483
1024799	40	89	10652	3.8	401	1953	3	15093	3.7	551	3	11707	452	1	14323	562
						1954	27	10334	3.8	391	24	11389	413	19	11070	409
						1955	25	10760	3.8	405	24	11299	423	22	11179	414
						1956	14	11201	3.8	421	14	11559	435	14	11250	424
						1957	7	10251	3.5	364	7	10771	397	7	10979	410
						1958	6	10867	3.7	398	6	11582	440	5	10366	389
						1959	5	11498	3.6	413	5	12478	447	4	12266	458
						1960	2	11840	3.4	407	1	10950	374			
1025339	1	4	13983	3.4	473	1952	1	16350	3.4	563	1	14020	483			
						1953	1	16040	3.4	545	1	16180	600	1	15238	569
						1954	1	14660	3.4	497	1	12770	492	1	14661	544
						1955	1	8880	3.2	286	1	12240	472	1	13363	518
1025361	4	5	12469	3.8	470	1958	2	12645	3.8	471	2	14460	535	1	15391	562
						1959	3	12807	3.7	479	3	13300	488	2	13980	500
1026178	307	471	11990	4.0	473	1951	1	12670	4.3	539	1	10680	428			
						1952	11	12827	4.2	537	9	12449	450			
						1953	24	12237	4.0	488	22	12353	452	19	12040	435
						1954	28	12156	4.0	478	26	12466	453	26	11904	446
						1955	24	12285	3.9	477	22	12577	469	19	11989	442
						1956	56	12648	3.8	483	53	13228	492	49	12445	458
						1957	68	11925	3.9	465	63	13158	493	56	12537	466
						1958	85	12111	3.9	471	68	12507	481	52	12170	460
						1959	134	11926	4.0	476	133	12124	459	76	12780	486
						1960	38	12161	4.0	485	38	12524	473	15	12181	456
1026410	432	796	11609	3.8	433	1953	46	12052	3.8	456	45	12160	450	40	11858	435
						1954	121	11906	3.8	445	118	12430	457	105	12314	453
						1955	182	11632	3.7	432	178	12258	456	159	12100	446
						1956	163	11649	3.7	433	159	12703	471	151	12242	451
						1957	117	11663	3.7	434	109	12618	478	99	12194	458
						1958	81	11993	3.8	459	74	12582	494	53	12383	471
						1959	71	11869	3.8	447	69	12132	459	33	12294	471
						1960	15	11564	3.9	444	15	12480	474	10	12591	482

RECDRD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY			AV. YEARLY		
											RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
1026806	441	816	11937	3.6	428	1951	10	12163	3.6	433		4	12718	447		
						1952	37	12672	3.6	460	26	12639	461			
						1953	90	12317	3.6	439	80	12250	453	64	11954	434
						1954	118	11922	3.6	428	114	12368	452	99	12125	446
						1955	147	11851	3.6	421	144	12630	466	125	12315	452
						1956	122	11782	3.5	413	119	12969	478	102	12214	449
						1957	105	11974	3.6	430	95	12977	489	80	12708	474
						1958	97	12384	3.6	447	82	12528	483	59	12183	460
						1959	70	12635	3.7	463	68	12645	485	37	13021	498
						1960	20	13025	3.6	472	20	12296	463	8	11539	435
1028520	115	148	11888	3.8	444	1955	4	10005	3.9	383	4	12203	439	4	11704	430
						1956	21	11708	3.7	435	18	12234	455	18	11840	430
						1957	25	11198	3.7	415	21	12198	453	21	11702	436
						1958	29	11955	3.9	460	20	12534	475	16	12115	458
						1959	54	12517	3.7	457	53	12189	455	34	12720	472
						1960	15	12541	3.8	474	15	12169	461	3	13843	514
1028664	1	1	13670	4.1	556	1960	1	13670	4.1	556	1	14860	550	1	15053	557
1030404	6	7	13603	3.8	508	1959	3	13033	3.8	493	3	13343	494	1	11739	416
1960	4	14855	3.7	551	3	14333	521	1	13669	524						
1032358	2	9	15457	4.1	633	1953	1	14070	3.8	530	1	14120	491			
						1954	1	14030	3.8	534	1	12500	447			
						1955	1	17530	4.3	746	1	15430	564	1	16012	601
						1956	1	11970	4.3	509	1	11900	423	1	12023	433
						1957	2	16100	4.0	648	2	14255	555	2	14459	541
						1958	1	17350	4.1	710	1	14380	537	1	15369	591
						1959	2	14710	4.3	625	2	12440	477	1	14584	553
						1960										
1033032	56	76	11883	3.8	449	1957	5	12496	3.7	459	5	14658	543	5	13640	497
						1958	23	12633	3.8	479	15	12765	453	14	12201	441
						1959	39	11531	3.8	434	39	11986	440	18	12819	466
						1960	9	12404	3.7	458	8	12153	433	5	11781	423
1033472	2	2	10180	4.5	459	1958	1	10150	4.5	438						
1959	1	10210	4.7	479	1	10620	391	1	12557	479						
1035454	31	34	13069	3.7	478	1957	1	7530	3.2	242	1	16990	578	1	13069	461
						1958	5	12508	3.3	417	5	11106	391	5	11458	404
						1959	18	13568	3.7	501	18	13004	473	4	13666	508
						1960	10	12674	3.7	474	7	12746	469	4	12922	469
1035850	3	3	12147	3.6	437	1957	1	13800	3.6	500	1	10990	417	1	11489	414
						1958	1	10060	3.8	378	1	9410	346	1	9952	364
						1959	1	12580	3.4	432	1	12600	511	1	12960	502
						1960										
1036120	1	1	12380	3.5	433	1955	1	12380	3.5	433	1	11410	414	1	10268	370
1038627	1	1	15680	3.4	536	1958	1	15680	3.4	536	1	15210	533	1	13462	516
1039565	11	17	12494	3.6	454	1954	2	11420	3.6	413	2	11550	413	2	10116	366
						1955	4	12925	3.5	451	4	13330	472	2	12421	449
						1956	5	12232	3.4	414	5	13630	493	3	12768	447
						1957	2	12630	3.3	415	2	12335	442	2	11652	417
						1958	3	13923	4.0	569	3	13567	495	3	12179	458
						1959	1	10530	3.8	398	1	11390	428			
						1960										
1040096	4	7	10959	3.7	406	1958	2	12800	3.6	467	2	12275	454	1	10366	379
						1959	4	10503	3.8	399	4	12793	454			
						1960	1	11240	3.4	386	1	11170	404	1	10322	373
1040535	1	1	9630	4.0	384	1960	1	9630	4.0	384						
1041500	99	214	11125	3.8	415	1952	3	12673	3.9	490	2	12415	453			
						1953	29	11085	3.7	413	26	11921	439	20	12088	441
						1954	63	11251	3.7	420	57	11685	434	50	11419	425
						1955	48	10640	3.7	395	46	11504	426	39	11755	434
						1956	27	11206	3.7	418	26	11875	446	23	11622	434
						1957	19	11475	3.7	419	17	11307	425	16	11376	434
						1958	11	12647	3.7	474	10	11888	465	6	11373	425
						1959	11	12882	3.9	498	11	13112	487	11	12475	468
						1960	3	10103	3.4	350	3	11587	420			
						1961										
1041846	3	9	10974	3.7	407	1953	1	13310	3.7	493						
						1954	1	13320	3.5	467						
						1956	1	10770	3.7	395						
						1957	3	10577	3.8	398	2	10390	380	2	9374	355
						1958	3	11363	3.6	412	2	12220	470	1	10922	411
1043859	1	2	12040	3.9	465	1957	1	11620	3.8	445	1	13260	480	1	12927	438
1958	1	12460	3.9	485	1	13440	523	1	11925	427						
1046466	8	13	14655	3.7	539	1955	1	14640	3.6	334	1	13620	471			
						1956	2	14315	3.8	533	2	13755	492	2	14159	509
						1957	2	15845	3.8	594	2	14825	525	2	15255	544
						1958	2	15495	4.1	628	2	12205	468	1	13505	484
						1959	3	14020	3.6	508	3	14480	527	2	14895	590
						1960	3	13947	3.5	485	3	13193	494			
1048342	5	11	13923	3.7	509	1955	1	12230	3.9	480	1	12610	453			
1956	3	15707	3.9	615	3	15543	597	3	14032	514						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	3	14517	4.0	578	3	15643	598	3	14036	531
						1959	4	17143	3.3	546	3	14183	557	2	15756	579
1049584	1	1	14330	3.6	521	1953	1	14330	3.6	521	1	14930	625			
1052521	1	1	10430	5.0	524	1958	1	10430	5.0	524	1	14410	550	1	13974	531
1054406	65	92	11857	3.7	436	1954	3	11570	3.8	441	3	14257	507	3	13327	472
						1955	6	11715	3.6	422	6	12603	456	5	12160	438
						1956	11	11308	3.6	404	11	12493	450	9	11556	423
						1957	16	12197	3.6	440	15	13160	489	12	12014	447
						1958	20	11644	3.7	436	14	12751	472	11	12569	467
						1959	28	11683	3.7	436	28	12769	475	15	13064	493
						1960	8	11059	3.6	400	7	11063	424	4	11372	422
1055483	36	78	12879	3.9	495	1953	2	14210	4.1	575	1	14050	530	1	12938	496
						1954	4	13015	3.9	506	4	12698	467	4	12004	441
						1955	7	13140	3.8	504	7	12409	459	6	12606	463
						1956	17	12999	3.8	486	17	12563	466	14	12605	468
						1957	11	13176	3.8	503	11	12537	473	11	12521	471
						1958	13	12959	3.8	490	12	13398	513	8	12715	478
						1959	19	13009	3.8	500	19	12724	484	12	12388	470
						1960	5	13330	3.9	517	5	11628	458	2	12650	465
1056882	260	436	12577	3.8	469	1953	5	12068	3.5	422	5	12262	442	3	11884	410
						1954	17	11509	3.8	428	19	11921	438	15	11970	441
						1955	31	11859	3.8	448	31	11827	436	27	12209	455
						1956	56	12659	3.7	469	56	13281	492	50	12476	460
						1957	62	12180	3.8	457	61	12764	478	57	12838	475
						1958	88	13066	3.7	486	82	12860	490	61	12514	469
						1959	141	13201	3.8	498	136	12829	482	73	12771	483
						1960	34	12935	3.7	477	32	12712	485	15	13073	491
1057124	1	2	10700	3.2	347	1959	2	10700	3.2	347	1	14480	477	1	14170	510
1057739	11	16	13279	4.0	528	1956	1	19460	3.4	664	1	13610	487	1	15086	534
						1957	1	16280	4.0	658	1	14210	506	1	14366	523
						1958	2	13590	4.4	596	2	12695	483	1	13505	484
						1959	11	13100	3.9	517	10	14079	518	5	14054	516
						1960	1	13970	4.3	601	1	16250	632			
1057953	413	615	12246	3.6	439	1954	10	13269	3.5	463	10	12435	457	8	11859	435
						1955	91	11890	3.6	423	88	11961	439	78	11821	435
						1956	98	11999	3.6	431	90	12161	452	89	12036	444
						1957	95	11742	3.6	423	79	12068	449	77	11793	438
						1958	118	12775	3.5	451	103	12432	462	75	12056	447
						1959	155	12907	3.6	467	147	12508	462	79	12671	466
						1960	48	12732	3.6	457	42	11736	443	18	12155	458
1058580	1	1	9840	4.0	392	1959	1	9840	4.0	392	1	12130	398	1	12546	456
1059274	4	6	12578	3.8	469	1958	2	12085	3.9	464	2	12165	453	2	12154	470
						1959	3	13083	3.5	464	3	13180	460			
						1960	1	11430	4.0	456	1	14790	540	1	12273	438
1059840	1	2	16460	3.4	558	1958	1	18060	3.4	621	1	14760	543	1	14443	542
						1959	1	14860	3.3	495	1	15090	558			
1061147	1	1	12550	3.6	451	1959	1	12550	3.6	451	1	11410	417	1	10726	391
1061172	7	8	13859	3.6	503	1957	1	19810	3.7	742	1	15300	533	1	16143	565
						1958	3	15227	3.8	574	2	12885	509	1	12426	452
						1959	2	12410	3.7	459	2	12725	480			
						1960	2	12130	3.5	405	1	14790	517			
1061174	68	78	12361	3.6	447	1958	9	12942	3.7	468	9	12319	457	9	12362	446
						1959	47	12034	3.6	434	47	12254	450	19	12117	442
						1960	22	13025	3.6	472	20	12767	475	11	13859	505
1061894	34	62	12083	3.8	462	1952	1	12850	4.3	558	1	13240	456			
						1953	1	11120	3.7	408	1	10870	368	1	10628	393
						1954	2	10850	3.9	422	2	11380	471	1	10606	395
						1955	7	11330	3.6	408	7	10760	398	4	11396	414
						1956	4	9895	3.6	354	4	11063	442	4	10415	387
						1957	11	12300	3.8	466	11	12196	444	11	11786	432
						1958	16	12065	3.9	467	13	12211	465	13	12141	450
						1959	15	12208	3.7	453	15	12541	471	11	13241	496
						1960	5	13832	3.9	545	1	10810	443	1	12372	487
1061907	1	1	13970	3.2	452	1960	1	13970	3.2	452	1	14400	536	1	15053	557
1061911	20	28	12121	3.6	429	1953	1	11270	3.9	442	1	11550	446	1	11347	434
						1954	1	9930	4.3	430	1	11880	467	1	11107	433
						1955	1	8490	4.2	361	1	10520	436	1	12088	482
						1956	2	11525	3.5	403	2	11060	394	1	11227	399
						1957	6	11692	3.7	432	6	12522	455	5	11303	411
						1958	4	13855	3.5	483	4	12800	487	4	12781	474
						1959	9	11831	3.5	407	9	12728	461	4	13701	495
						1960	4	13625	3.4	469	4	12758	489	2	9401	354
1068248	2	2	14300	3.4	477	1959	1	15910	3.4	537	1	13170	501	1	11761	424
						1960	1	12690	3.3	417	1	12040	423			
1070036	7	13	12175	3.7	450	1954	2	12040	3.8	465	2	13375	490	1	12786	480



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTMPL. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1955	1	11500	3.6	411	1	11680	384			
						1956	3	11847	3.6	427	3	13083	490	2	12802	483
						1957	1	15090	3.7	566	1	12160	455	1	12517	457
						1958	3	13403	3.7	502	3	12210	451	3	11888	442
						1959	3	12360	3.8	474	3	12087	453	3	12604	482
1070850	25	36	12781	3.5	444	1957	5	12683	3.5	439	5	12020	468	3	11899	450
						1958	11	13612	3.6	496	10	11844	442	7	12418	445
						1959	16	12798	3.4	437	15	12237	448	6	13046	473
						1960	6	12085	3.5	421	6	12628	465	4	12966	469
1073818	9	18	10805	3.8	412	1954	2	11255	3.7	409	2	10565	410	2	10977	404
						1955	5	9676	3.9	375	5	10996	410	4	10309	372
						1956	3	10557	3.9	402	3	12500	453	2	11402	417
						1957	5	12300	3.8	464	3	12160	472	3	12477	472
						1958	2	11200	4.0	448	2	11840	463	1	11183	463
						1959	2	10165	3.9	399	2	10215	383	1	11674	427
						1960	1	11230	4.2	472	1	10420	418			
1073831	3	3	11713	3.8	440	1959	1	11870	3.9	463	1	11470	435	1	12644	458
						1960	2	11635	3.7	429	2	15685	539			
1075280	5	6	13544	3.8	511	1958	1	11880	3.8	446	1	13610	475	1	10431	390
						1959	5	13612	3.8	512	5	13058	478	1	15413	567
1076122	2	3	13693	3.8	515	1955	1	14760	4.2	621	1	15510	541	1	13592	469
						1956	1	14490	3.7	532	1	14810	519	1	15086	534
						1959	1	12760	3.5	453	1	12240	449	1	14246	543
1080157	2	3	15958	3.8	601	1958	2	16550	3.8	624				1	11292	427
						1959	1	13990	3.4	481	1	9720	380	1	13189	501
1081270	25	39	11374	4.0	451	1954	2	12410	3.8	467	2	10315	376	2	10606	395
						1955	4	12570	3.9	488	3	10673	382	3	10944	398
						1956	5	11534	4.0	450	5	12370	457	4	10592	369
						1957	4	9900	3.7	363	4	11305	422	3	11423	413
						1958	4	11578	3.9	450	4	13755	516	3	12332	472
						1959	15	11270	4.0	452	15	11951	454	12	12552	467
						1960	5	12530	4.0	496	5	12564	484	2	12257	473
1081684	35	62	11936	4.0	476	1954	4	13360	4.0	527	3	13043	495	4	12867	482
						1955	12	12422	3.9	490	12	13058	486	12	13106	492
						1956	15	12438	3.9	487	15	13062	480	12	12426	462
						1957	14	11432	4.1	468	14	12981	488	11	13350	502
						1958	6	11685	4.2	491	6	12498	493	4	12903	499
						1959	10	12360	4.1	500	9	13097	510	5	12614	500
						1960	1	2890	5.0	144	1	14320	577	1	14453	553
1082308	516	937	11196	3.9	430	1953	21	10989	4.1	445	21	13127	490	18	12209	444
						1954	103	11048	3.8	424	102	12567	461	85	12224	448
						1955	152	11525	3.8	439	148	12685	467	137	12288	452
						1956	186	11319	3.8	433	181	13078	489	169	12209	452
						1957	144	11461	3.9	445	133	12859	484	130	12428	466
						1958	129	11728	3.9	453	116	12693	495	91	12202	459
						1959	159	11318	3.9	439	154	12668	466	86	12645	482
						1960	43	11999	3.9	460	41	12507	468	17	11471	432
1085879	337	620	11234	3.8	427	1954	29	10871	3.8	418	29	12043	445	20	11880	433
						1955	104	11337	3.8	429	103	12294	451	91	11723	435
						1956	135	11042	3.8	416	130	12705	475	121	12081	447
						1957	110	11416	3.8	431	106	12722	475	95	12398	462
						1958	99	11234	3.8	429	89	12697	491	68	12220	461
						1959	108	11910	3.9	458	108	12465	470	73	12497	476
						1960	37	11220	3.7	416	36	11982	460	12	11798	453
1086776	9	20	12099	3.6	436	1953	2	14535	3.7	541	2	14575	543	2	14715	520
						1954	4	13658	3.6	485	4	13708	508	4	13404	505
						1955	3	12877	3.5	453	3	12527	454	2	12601	455
						1956	3	12103	3.4	412	3	12670	461	3	12266	452
						1957	2	10455	3.9	408	2	14105	535	1	12045	444
						1958	3	10827	3.8	408	3	12227	455	3	11587	436
						1959	3	11167	3.6	400	3	11897	449	2	12639	470
1087974	1	1	15280	3.7	562	1959	1	15280	3.7	562	1	13970	545			
1088151	26	31	13463	3.9	517	1958	7	16161	3.8	617	7	14470	527	7	14584	529
						1959	22	13229	3.9	508	22	13156	485	8	12620	466
						1960	2	12175	3.7	448	2	11615	396	1	11718	411
1088707	13	22	12669	3.7	470	1955	2	12815	3.7	474	2	13550	493	2	12432	462
						1956	6	12733	3.7	476	6	12558	465	6	12006	476
						1957	5	14017	3.8	535	5	14097	537	3	14130	540
						1958	4	14695	3.5	523	4	13020	482	4	12922	478
						1959	7	12754	3.8	481	7	12567	483	6	12873	487
1088709	9	18	11787	3.6	419	1955	5	11983	3.5	396	3	11407	408	1	10955	393
						1956	4	13115	3.6	467	3	12343	486	3	13066	493
						1957	4	10983	3.5	385	4	12118	456	3	12553	425
						1958	5	11853	3.6	430	3	12117	507	1	13047	508
						1959	4	12743	3.6	459	4	12795	456	2	11211	404
1088846	5	7	13800	3.8	519	1958	2	14035	3.7	512	1	13550	494	1	13505	484
						1959	4	13778	3.7	515	4	12953	477	3	13985	516
						1960	1	14280	3.9	552	1	10740	367			
1088861	44	46	11871	3.6	428	1959	24	12068	3.7	435	22	12313	463	12	12674	463
						1960	22	11570	3.6	416	20	12674	470	7	13341	499

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR													
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	305-DAY RECORDS NO.	CONT. MILK LBS.	MP. FAT LBS.	AV. RECORDS NO.	MILK LBS.	FAT LBS.	YEARLY HERO AVERAGE RECORDS NO.	MILK LBS.	FAT LBS.
HOLSTEIN																			
1090340	691	1083	13772	3.7	513	1953	17	14888	3.6	541	16	12707	474	15	12093	442			
						1954	59	14821	3.7	544	55	12704	472	53	12702	467			
						1955	87	14711	3.7	542	83	12919	482	73	12582	462			
						1956	117	13881	3.7	508	113	13108	485	104	12461	456			
						1957	156	13526	3.7	499	143	13052	483	132	12627	464			
						1958	181	14190	3.7	528	156	11972	476	115	12457	466			
						1959	357	13816	3.8	518	341	12566	475	210	12866	486			
						1960	109	13974	3.8	522	105	12745	483	36	12411	466			
1090980	1	1	17250	3.6	629	1956	1	17250	3.6	629	1	15030	542						
1090996	1	2	11905	3.5	412	1958	1	11550	3.4	392	1	10360	377						
						1959	1	12260	3.5	431	1	10800	377						
1092773	10	17	14006	3.6	503	1955	2	15310	3.7	564	2	12865	492	2	13625	513			
						1956	6	13545	3.6	487	6	13272	480	4	11938	437			
						1957	2	12675	3.5	445	2	13945	486	2	12454	441			
						1958	3	15553	3.6	556	2	14280	530	2	12454	463			
						1959	3	12243	3.7	447	3	14420	514						
						1960	1	13720	3.5	456	1	11150	392	1	13069	453			
1092843	1	2	11705	3.6	416	1958	1	11390	3.5	400	1	9930	366						
						1959	1	12020	3.6	432	1	11150	425						
1094921	31	55	11688	3.8	447	1954	1	17410	3.6	628	1	12400	464	1	13156	494			
						1955	5	14748	3.6	535	5	13282	497	5	13355	484			
						1956	8	12456	3.9	484	8	13465	497	8	12735	471			
						1957	10	11851	3.7	436	10	12783	468	10	12780	442			
						1958	9	12129	3.7	449	9	13520	517	7	12951	488			
						1959	20	11851	3.9	460	20	12425	461	14	12221	443			
						1960	2	10185	3.4	345	2	11640	427						
1097148	23	45	10591	3.9	413	1953	2	9620	4.5	428	2	12900	478	2	12933	470			
						1954	17	11017	3.8	423	15	11269	419	14	11017	417			
						1955	12	9589	3.9	371	11	10554	387	10	10548	393			
						1956	7	10864	3.9	429	6	11363	430	6	10793	409			
						1957	2	9745	4.2	415	2	10825	427	2	11287	461			
						1958	2	10475	3.8	394	2	12315	464	2	12165	461			
						1959	3	12833	3.9	497	3	12490	460	3	13196	492			
1101117	1	2	16220	3.7	600	1959	1	15370	3.7	562	1	13950	543	1	13723	520			
						1960	1	17070	3.7	638	1	14550	535						
1104657	11	23	11704	4.2	482	1954	1	14020	4.2	592	1	16860	614	1	14355	523			
						1955	6	11850	4.3	506	6	11710	430	5	11022	434			
						1956	4	9850	4.2	408	4	11953	428	4	11606	434			
						1957	2	12150	4.3	524	2	13040	493	2	13625	504			
						1958	4	12265	4.1	502	4	13160	504	3	11576	458			
						1959	3	13940	3.9	538	3	14153	503	2	13315	488			
						1960	3	11807	4.0	475	3	12160	472						
1106334	4	5	14993	3.8	571	1957	1	14600	3.7	543	1	12860	476	1	14366	523			
						1959	3	15203	3.8	582	3	13230	477	2	13854	502			
						1960	1	12800	3.7	475	1	10610	386						
1106407	2	2	10460	3.7	383	1959	2	10460	3.7	383	1	11970	463	1	12034	464			
1106775	27	54	12041	3.8	455	1955	4	12423	3.6	445	4	11290	427	2	11375	450			
						1956	9	11024	3.8	421	9	11546	432	7	11285	424			
						1957	10	10804	3.9	418	10	11602	443	10	11698	443			
						1958	12	13061	3.8	500	12	12576	492	7	12835	489			
						1959	14	12836	3.6	481	13	12733	484	6	12871	502			
						1960	5	11650	3.7	434	5	13028	496	2	12868	471			
1108713	194	266	11610	3.5	408	1954	2	13245	3.6	504	2	12595	473	2	12001	451			
						1955	34	11813	3.5	419	33	12119	452	28	11857	444			
						1956	49	11240	3.5	399	46	12073	450	44	11543	418			
						1957	39	11237	3.6	403	35	12531	465	32	12033	449			
						1958	50	12219	3.6	436	40	12468	462	30	12076	450			
						1959	64	12145	3.5	424	62	12232	455	38	11911	449			
						1960	28	12055	3.5	420	24	11474	433	11	10899	397			
1109640	2	3	14588	4.0	586	1959	2	13900	4.0	562	2	12435	490	1	13854	548			
						1960	1	17240	4.2	723	1	16220	645						
1109891	1	1	7950	3.9	314	1960	1	7950	3.9	314	1	4990	196						
1109924	110	168	11132	3.8	421	1954	7	11103	3.8	416	7	10617	396	6	11154	416			
						1955	25	12094	3.8	456	25	11703	429	24	11988	439			
						1956	30	11363	3.7	423	28	11993	453	27	11790	437			
						1957	29	11791	3.7	439	26	11644	430	24	11861	442			
						1958	29	11321	3.8	451	27	12153	472	16	12389	465			
						1959	35	11571	3.9	447	34	12200	455	24	11866	445			
						1960	13	11121	3.9	427	12	11453	452	3	11641	435			
1110999	246	419	12423	3.8	466	1954	28	12481	3.7	467	27	11973	440	20	12030	454			
						1955	87	12103	3.7	445	84	11963	439	71	11922	438			
						1956	80	11742	3.7	437	72	11963	442	75	11743	436			
						1957	69	12078	3.8	454	62	12518	458	60	12024	450			
						1958	63	13016	3.8	498	55	12152	465	59	12326	459			
						1959	75	13585	3.8	516	71	12794	474	51	12882	477			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1960	17	12821	3.9	500	14	12274	464	6	12584	479
1111075	23	39	11946	3.6	430	1954	2	10965	3.6	395	2	12185	453	2	10955	407
						1955	5	10314	3.6	371	5	11178	404	4	11317	414
						1956	5	11610	3.6	420	5	12374	456	5	11079	411
						1957	6	11550	3.6	445	6	12075	446	6	12249	454
						1958	5	11626	3.6	419	5	12614	478	5	12985	480
						1959	10	12899	3.5	453	10	12712	472	7	12523	456
						1960	6	10735	3.6	393	6	12375	462	4	11614	449
1111076	21	35	13272	3.7	482	1954	2	10770	3.9	422	2	11140	409	2	10726	387
						1955	3	13517	4.0	536	3	12367	468	3	11946	445
						1956	6	14395	3.6	526	6	12490	487	6	12344	465
						1957	10	12960	3.7	476	10	12665	478	10	12551	464
						1958	4	14225	3.6	510	4	12433	496	2	12323	460
						1959	6	13205	3.5	458	6	12498	469	1	12131	474
						1960	4	14200	3.5	495	4	11270	413			
1112216	2	3	10910	3.9	421	1958	1	9000	4.1	366	1	12010	435	1	12786	467
						1959	1	12080	3.7	446	1	10680	395			
						1960	1	13560	3.7	505	1	12170	435			
1113278	47	81	13260	3.8	498	1955	3	11130	3.8	431	3	11303	430	3	12110	450
						1956	7	12336	3.8	472	7	12511	482	6	11590	445
						1957	16	11976	3.7	450	16	11744	440	16	12267	464
						1958	22	13019	3.9	501	19	12277	479	12	12045	452
						1959	29	14836	3.8	520	29	13113	499	16	12863	504
						1960	4	14258	3.6	517	4	13040	487	5	11972	444
1115426	1	1	12610	3.4	423	1959	1	12610	3.4	423	1	7520	278			
1115429	1	2	13535	3.6	484	1954	1	13550	3.5	480	1	10950	422	1	11805	429
						1955	1	13520	3.6	467	1	12710	473	1	11914	448
1116198	5	8	12250	3.5	433	1955	1	11180	3.5	371	1	11200	391			
						1956	1	11400	3.6	427	1	13120	453	1	13778	466
						1957	3	12323	3.4	418	3	10220	351	3	11376	404
						1958	2	12690	3.4	454	2	12965	487	1	11659	422
						1960	1	13650	4.0	550	1	18090	695	1	14869	555
1118017	5	5	12362	3.8	470	1959	1	12460	4.2	522						
						1960	4	12356	3.7	457	4	11555	416			
1119067	1	2	15110	3.6	537	1956	1	14090	3.5	489	1	13040	450	1	13789	474
						1957	1	16130	3.6	585	1	15230	563	1	13887	495
1119514	41	60	13357	3.6	471	1954	3	15720	3.5	548	2	15270	640	3	14467	533
						1955	3	16460	3.5	577	3	14523	565	3	14410	559
						1956	6	15973	3.4	544	6	12698	486	6	13122	488
						1957	7	15507	3.4	521	7	13766	519	7	13505	515
						1958	11	14558	3.5	503	10	12719	486	7	12608	460
						1959	21	13111	3.6	461	21	12587	461	15	12680	475
						1960	9	12066	3.6	433	9	12537	457	2	12688	465
1122159	965	1133	12732	3.7	467	1957	51	11917	3.6	432	48	12701	490	44	12720	471
						1958	227	12720	3.7	467	170	12863	492	150	12579	475
						1959	620	12774	3.7	470	605	12832	488	371	13123	500
						1960	235	13025	3.6	473	224	12719	482	86	12548	473
1122869	1	1	4950	3.4	168	1956	1	4950	3.4	168	1	9860	335	1	9527	326
1125395	43	58	12584	3.7	465	1956	2	12960	3.7	473	2	13525	514	2	13238	491
						1957	3	11670	3.9	449	3	12623	484	3	13273	504
						1958	13	12141	3.7	443	10	12493	462	8	12733	479
						1959	28	13543	3.7	487	28	13590	495	12	13187	493
						1960	12	11323	3.9	430	9	12839	481	8	13400	501
1125597	1	1	11300	3.8	430	1959	1	11300	3.8	430	1	12410	483			
1127407	157	208	11306	3.8	425	1955	7	10977	3.6	396	7	12720	456	6	12245	449
						1956	14	10359	3.7	364	14	12027	449	14	11925	432
						1957	17	11339	3.7	424	14	12056	457	13	12167	461
						1958	51	11035	3.8	414	36	12188	449	26	11324	423
						1959	92	11868	3.8	447	88	12779	452	52	12473	462
						1960	27	12697	3.8	477	26	12172	447	10	12795	471
1128315	2	3	10960	3.8	417	1959	2	10595	3.8	401	2	11165	426			
						1960	1	10780	3.6	386	1	12050	434	1	10006	359
1129610	4	4	11703	3.9	457	1955	2	11615	3.8	436	2	9975	371	2	11532	449
						1957	1	12470	3.9	487	1	15090	562	1	12753	472
						1960	1	11110	4.2	468	1	10990	408	1	11282	425
1130812	161	214	11211	3.9	431	1955	11	12285	3.8	461	11	11686	427	10	11929	435
						1956	16	10876	3.9	424	16	12403	471	14	11516	450
						1957	24	10682	3.9	416	20	12587	462	17	12563	465
						1958	58	10696	3.9	417	46	11776	443	41	11624	447
						1959	85	11585	3.8	441	82	12279	449	43	12461	457
						1960	20	12024	3.7	450	19	11439	422	3	10286	396
1131008	125	195	12151	3.7	447	1955	29	12678	3.7	470	29	13496	493	27	12384	450
						1956	37	12588	3.7	465	34	13316	495	33	12459	457
						1957	47	11876	3.7	436	41	13561	507	37	12855	478
						1958	26	12305	3.7	456	21	13208	517	15	12652	463

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1959	59	12779	3.2	490						
						1960	17	12056	3.7	438	38	12904	4.4	21	12721	476
											16	11593	431	5	12701	467
1131206	1	2	8055	4.6	369	1957	1	8580	4.7	400	1	12270	436	1	12775	481
						1958	1	7530	4.5	337	1	12370	440	1	12143	447
1132993	62	83	13262	3.7	491	1956	4	12778	3.6	455	4	13630	503	4	12974	478
						1957	16	12111	3.7	447	16	11839	446	15	12047	448
						1958	16	13534	3.7	496	13	12899	491	10	12810	484
						1959	32	13992	3.7	524	31	12696	474	19	12610	472
						1960	15	13090	3.7	488	14	13019	490	8	12823	491
1133192	1	1	16520	3.5	576	1960	1	16520	3.5	576	1	15020	527			
1134208	1	1	11770	3.7	436	1959	1	11770	3.7	436	1	13040	521			
1140586	1	1	10850	3.9	420	1958	1	10850	3.9	420	1	14500	493	1	12034	443
1141527	1	1	15210	3.0	458	1960	1	15210	3.0	458	1	14010	455			
1143710	10	14	10769	3.7	397	1956	1	8890	3.8	340	1	12460	470	1	12590	457
						1957	4	11593	3.7	427	3	12117	445	2	12165	415
						1958	3	10143	3.7	375	2	12370	472	1	9995	367
						1959	5	10610	3.6	386	4	10726	381	3	10846	367
						1960	1	12246	3.7	452	1	13140	432			
1145460	1	2	9660	4.0	383	1958	1	8610	4.1	353	1	10770	437	1	10955	410
						1959	1	10710	3.8	412	1	9670	385	1	9974	396
1145788	4	8	17346	4.0	685	1955	1	12830	3.8	485				1	14137	513
						1956	2	17310	3.9	658	2	14770	553	2	16427	605
						1957	2	17490	3.8	653	2	14120	548	2	15794	605
						1958	3	19120	4.0	757	2	14675	599	1	16339	630
1146113	270	409	12395	3.9	478	1954	2	13240	3.9	510	2	12850	469	1	11521	458
						1955	18	12462	3.8	468	18	12251	451	14	11911	442
						1956	54	12152	3.8	457	53	12705	471	51	11985	458
						1957	76	11627	3.9	458	74	12622	467	67	12353	457
						1958	85	12405	3.6	475	73	12258	467	61	11636	456
						1959	121	13095	3.9	508	121	12665	485	63	13044	494
						1960	55	12503	3.9	485	55	12607	469	24	12214	455
1150650	2	2	13225	3.6	469	1959	2	13225	3.6	469	2	13490	512	2	12682	477
1152248	3	3	10573	3.3	339	1958	2	12230	3.2	381	2	14630	539	2	14018	516
						1960	1	7260	3.5	255				1	10224	367
1152351	737	1150	12477	3.8	478	1955	36	13071	3.8	489	36	12636	491	27	12442	461
						1956	151	12928	3.8	489	149	13129	497	133	12438	458
						1957	216	12086	3.8	460	206	12953	483	186	12723	472
						1958	279	12557	3.9	491	261	12465	471	174	12388	462
						1959	349	12577	3.9	484	329	12673	478	200	12674	488
						1960	117	12981	3.6	475	110	12765	479	32	12445	468
1153054	143	219	13156	3.7	486	1955	7	12756	3.7	462	7	13121	477	5	12539	450
						1956	46	13368	3.7	492	45	13534	492	42	12626	463
						1957	52	13150	3.8	490	49	13144	487	47	12767	473
						1958	37	13204	3.8	498	35	12965	497	25	12540	467
						1959	57	13046	3.7	481	57	12460	466	31	13184	500
						1960	16	14508	3.6	525	16	12941	470	4	12034	452
1153740	6	7	11846	3.8	446	1959	6	11778	3.8	446	6	12652	452	4	12314	458
						1960	1	10640	4.4	473	1	12450	484			
1156059	9	10	11094	3.8	420	1958	1	11960	3.9	467	1	13550	493			
						1959	7	11570	3.9	449	7	11401	436	4	10527	416
						1960	2	10000	3.7	372	1	13650	532	1	12579	486
1157722	8	9	13701	3.5	477	1957	2	12505	3.6	445	1	14940	519	1	12219	459
						1959	6	13998	3.4	481	6	12212	435	5	12256	458
						1960	1	15410	3.7	577	1	13710	524	1	14486	554
1160414	6	8	13904	3.8	526	1956	1	16780	3.7	627	1	18020	626	1	12971	462
						1957	3	12820	3.9	499	3	13423	485	3	12782	464
						1958	2	15846	3.5	554	2	11105	470			
						1959	2	12530	4.1	511	2	12060	456	1	13745	512
1164014	4	6	12216	3.8	463	1958	2	13130	3.7	489	2	11400	415	1	10769	392
						1959	3	11750	3.9	454	3	12297	454	3	11645	446
						1960	1	6320	3.9	324	1	10950	361			
1164018	4	7	12417	3.7	454	1956	1	15870	3.8	500	1	13260	507	1	12579	461
						1958	3	12130	3.7	452	2	13025	482	2	13227	505
						1959	1	14746	3.7	543	1	12200	467	1	13200	520
						1960	2	12685	3.6	460	2	11345	417			
1164021	1	1	9890	3.5	347	1960	1	9890	3.5	347	1	9830	364			
1165815	1	1	7270	3.3	241	1960	1	7270	3.3	241	1	8870	345	1	13669	489
1169846	95	115	11202	3.9	434	1956	1	8690	3.5	314	1	10940	413	1	12001	431
						1957	5	8284	4.0	327	4	11023	412	3	11605	431
						1958	27	11328	3.8	434	26	12093	446	17	11641	437



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
1167047	7	7	11126	3.7	410	1959	62	11834	3.9	458	61	12506	463	38	12456	468	
						1960	20	10628	3.8	404	19	12152	455	6	12539	464	
1167093	32	33	12322	3.7	462	1958	1	14840	4.0	589	1	15180	552	1	14639	532	
						1959	16	13106	3.7	494	16	12851	473	7	12898	462	
1167447	28	28	11944	3.7	448	1960	16	11580	3.7	433	13	11923	443	12	12532	463	
						1959	18	12944	3.8	485	17	13535	503	9	13724	503	
1167510	1	1	16180	3.2	512	1960	10	10143	3.7	380	10	11367	429	5	11039	429	
						1959	1	16180	3.2	512	1	10360	384				
1170465	81	104	12608	3.9	490	1956	5	13130	3.9	508	5	11882	440	5	12167	443	
						1957	13	11508	4.0	456	12	10858	412	12	11728	436	
1170910	21	25	12069	3.8	460	1958	21	12888	3.9	498	20	11824	447	16	11915	445	
						1959	53	12792	3.9	494	49	12221	452	26	12720	469	
1172141	4	4	12265	3.6	444	1960	12	12268	3.7	457	10	11950	445	6	12184	453	
						1958	1	17400	3.4	588	1	13300	464	1	14072	492	
1174329	76	97	12700	3.6	457	1959	14	11836	3.8	453	14	11859	453	10	11952	453	
						1960	10	12752	3.8	485	10	12059	455	4	12107	449	
1174532	4	4	12903	3.8	487	1958	1	15550	3.8	598	1	15840	621	1	16339	630	
						1959	3	11170	3.5	393	3	11957	441	3	13531	502	
1174679	22	37	11349	4.1	458	1956	9	13686	3.7	498	9	11894	443	6	11930	434	
						1957	20	11857	3.7	452	17	11858	448	17	11817	442	
1175466	4	6	13495	3.5	466	1958	21	12838	3.6	462	16	11796	445	15	12146	450	
						1959	33	12688	3.6	461	31	12661	473	23	12424	461	
1175467	19	22	12955	3.9	497	1960	14	13961	3.4	481	13	13565	501	5	12770	467	
						1958	1	16120	3.6	580	1	15860	584	1	16350	588	
1178742	1	1	7500	3.6	267	1959	2	12525	3.9	491	2	13460	479				
						1960	1	10440	3.7	386	1	11880	420				
1179373	1	1	16820	3.6	609	1956	7	12434	3.9	487	7	13510	497	7	13130	478	
						1957	10	11662	4.2	480	10	12671	490	10	12526	479	
1179574	21	30	12388	3.9	479	1958	7	10841	4.0	428	6	12562	465	4	11650	429	
						1959	11	10294	4.2	431	11	12538	479	6	12597	491	
1182598	1	1	15050	3.0	459	1960	2	13425	4.5	597	2	12845	515	1	14846	590	
						1958	2	13605	3.4	452	2	11555	435	2	10966	418	
1182629	1	1	13590	3.6	492	1959	3	12677	3.5	446	3	12197	450				
						1960	1	17030	3.4	574	1	11970	511				
1182696	199	260	13444	3.8	511	1958	1	13290	4.2	557	1	16190	626	1	11652	437	
						1959	14	12630	3.8	474	13	12092	456	8	11919	446	
1182714	1	4	8783	3.8	333	1960	7	13491	3.8	519	6	13023	497	5	12446	469	
						1958	1	7500	3.6	267							
1183498	8	8	10025	3.6	366	1960	1	16820	3.6	609	1	10540	393				
						1957	4	11390	3.9	446	4	12655	454	4	12478	447	
1184848	12	15	12770	3.9	499	1958	9	13348	4.1	542	8	13276	509	6	12782	471	
						1959	13	13007	3.9	497	13	13420	510	6	13089	487	
1186866	8	8	13129	3.8	504	1960	4	11263	3.9	445	3	13150	493	2	11952	454	
						1957	1	11320	3.4	386	1	14040	523	1	12949	487	
1189590	1	1	15290	3.4	520	1958	2	14775	3.5	513	2	13790	496	1	12361	433	
						1959	6	12322	3.6	437	5	13026	470	2	13184	495	
1190151	19	25	12297	3.9	480	1960	6	12375	3.7	459	6	13072	497	3	12604	473	
						1958	1	15050	3.0	459	1	14040	454				
1190151	19	25	12297	3.9	480	1959	1	13590	3.6	492	1	11970	448	1	10301	398	
						1960	8	10025	3.6	366	5	9758	355	4	12306	466	
1190151	19	25	12297	3.9	480	1958	3	12493	3.9	489	2	13020	472	2	11244	415	
						1959	8	12824	3.9	497	8	12763	482	3	11750	457	
1190151	19	25	12297	3.9	480	1960	4	13068	3.9	512	4	11845	441	2	10791	411	
						1958	3	12373	4.0	489	3	11853	454	3	12045	447	
1190151	19	25	12297	3.9	480	1959	2	12990	3.8	492	2	12000	443	2	12906	479	
						1960	3	13977	3.8	526	3	11880	438				
1190151	19	25	12297	3.9	480	1958	4	12063	3.5	416	1	13240	480	1	14072	492	
						1959	4	12063	3.5	416	1	13240	480	1	14072	492	



TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
						HOLSTEIN										
						1959	15	12506	3.9	494	12	12953	476	7	13912	517
						1960	8	12290	4.0	488	8	11831	441	5	12685	482
1190396	11	13	10669	3.6	376	1956	1	8220	3.4	280	1	10290	400	1	10965	419
						1957	1	5150	3.9	203	1	9600	384	1	10649	432
						1958	4	10463	3.8	380	1	12190	501			
						1959	5	11574	3.4	396	5	12152	449	4	12810	466
						1960	2	11255	3.6	402	2	10915	396			
1192779	5	5	13062	3.7	487	1959	2	11285	3.4	375	2	11495	416	2	12083	431
						1960	3	14247	3.9	562	3	13520	515	3	12346	460
1192784	2	4	15097	3.7	552	1957	1	11190	4.0	448	1	11770	470	1	11750	474
						1958	1	15300	3.9	599	1	12350	472	1	12808	498
						1959	2	15035	3.0	554	2	13580	532	2	13080	511
1192789	1	1	10020	4.2	422	1960	1	10020	4.2	422	1	7260	265	1	12012	465
1192946	10	14	14716	3.6	541	1958	2	15445	3.5	536	1	14770	543	1	14443	542
						1959	8	14713	3.6	544	8	13430	496			
						1960	4	14653	3.7	541	4	13193	481	4	13069	489
1193934	3	3	13487	3.5	472	1959	2	15570	3.4	533	2	13160	481	2	13097	477
						1960	1	9320	3.7	349	1	9620	400			
1194166	8	11	12121	4.2	502	1957	2	11675	4.2	494	2	13270	527	2	12045	459
						1958	7	12557	4.1	518	4	14015	523	4	12445	469
						1959	2	11430	4.1	466	2	13670	512	1	11979	433
1196264	1	1	9160	4.0	368	1959	1	9160	4.0	368	1	10670	403			
1203114	211	296	13037	3.7	483	1956	3	15027	3.5	520	3	14090	501	3	13752	504
						1957	49	13333	3.7	491	47	12881	483	44	12494	466
						1958	85	13054	3.7	486	75	12745	491	59	12347	466
						1959	115	12772	3.8	479	111	12519	477	55	12849	492
						1960	44	13448	3.7	499	43	12526	472	18	12132	455
1204557	1	1	11880	3.9	461	1959	1	11880	3.9	461						
1204748	1	1	12010	3.4	413	1960	1	12010	3.4	413	1	10820	399	1	10301	389
1214435	1	1	12100	3.0	368	1958	1	12100	3.0	368	1	9560	328	1	10126	358
1215686	2	3	12530	4.2	516	1957	1	11690	4.2	485	1	13740	531	1	14508	534
						1958	2	12550	4.1	516	2	12940	486			
1215995	191	259	12645	3.9	489	1956	2	11435	4.1	453	2	13245	475	2	13615	491
						1957	39	12007	3.9	466	35	12862	480	29	12570	464
						1958	62	13069	3.8	497	53	12565	486	37	12302	462
						1959	118	12613	3.9	488	115	12279	466	75	12741	488
						1960	38	12369	3.9	482	35	12079	463	14	11425	428
1216908	2	2	12610	3.5	432	1960	2	12610	3.5	432	2	12635	471			
1216909	6	6	11443	4.0	460	1958	1	12540	3.4	430	1	11780	467	1	11848	459
						1959	3	12503	4.1	517	3	12730	475	2	12072	466
						1960	2	9305	4.3	390	2	11050	405	2	6496	238
1216957	28	32	12709	3.9	495	1959	19	12533	3.8	481	17	12491	463	11	12487	464
						1960	13	12745	3.9	496	13	11857	455	4	13004	492
1217566	1	1	12140	3.6	440	1959	1	12140	3.6	440	1	15240	541			
1218293	1	2	16540	4.1	677	1959	1	17040	4.0	680	1	14410	578			
						1960	1	16040	4.2	674	1	14960	588	1	13418	530
1224123	8	9	10540	4.1	435	1958	2	10820	4.3	456	1	12960	497	1	13625	518
						1959	4	10458	4.1	433	3	12270	471	1	13516	512
						1960	3	9673	4.0	387	3	12093	454			
1224313	15	21	14333	3.5	501	1958	5	13454	3.5	460	5	13404	484	5	12976	471
						1959	11	15309	3.5	537	9	13163	468	4	11881	426
						1960	5	14194	3.5	497	5	13296	487	2	13369	567
1224521	2	2	13765	3.7	492	1959	1	16990	3.2	538	1	13130	470	1	13876	504
						1960	1	10540	4.2	445	1	12050	441	1	13167	493
1227623	2	2	13095	3.5	456	1959	2	13095	3.5	456	2	13670	481	1	11979	433
1228997	60	68	11656	3.8	443	1958	2	11875	3.8	451	1	14770	554	1	14312	534
						1959	47	11241	3.8	424	41	12455	466	22	12697	472
						1960	19	12397	3.9	478	18	12443	460	6	11941	436
1229006	46	51	11718	3.8	446	1958	1	10370	3.9	401	1	13620	494			
						1959	33	12338	3.8	469	33	12764	470	20	12773	471
						1960	17	11107	3.8	422	14	11751	440	6	11674	431
1230109	1	1	14850	4.2	627	1960	1	14850	4.2	627	1	15350	517			
1231506	1	1	14500	3.3	477	1959	1	14500	3.3	477	1	14150	451			
1232009	64	74	11762	4.0	465	1957	5	12214	4.0	489	4	13430	494	4	12516	454
						1958	16	11479	3.9	446	13	12563	464	12	11808	459

TABLE 15.--DAUGHTER-AVERAGE OF SIZES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1959	38	11911	4.0	471	34	12588	483	20	13525	510
						1960	14	12155	3.9	468	14	12494	471	6	13247	499
						1961	1	11410	4.6	523	1	11630	454	1	13363	537
1234371	1	1	13950	3.8	526	1959	1	13950	3.8	526	1	12730	466	1	13745	512
1236249	2	2	11640	3.8	444	1959	2	11640	3.8	444	2	10600	411	2	12344	463
1236923	27	32	12222	4.1	497	1958	4	11435	4.0	454	4	11190	416	4	11552	426
						1959	23	12357	4.0	497	23	12662	457	15	12549	462
						1960	5	12452	4.1	509	5	12262	468			
1237594	472	563	12589	3.8	474	1957	30	12339	3.7	448	28	12853	474	23	12404	455
						1958	89	12758	3.7	471	76	12856	488	63	12413	469
						1959	318	12822	3.8	485	310	12808	485	183	12901	490
						1960	126	12302	3.8	461	121	12737	478	40	12707	475
1237666	2	2	14055	3.8	531	1959	1	12910	3.7	484	1	13210	492	1	13854	502
						1960	1	15200	3.8	578	1	15200	557			
1239208	4	5	9993	3.9	384	1959	4	9340	3.8	350	3	11617	429	2	12306	454
						1960	1	12440	3.8	474	1	14550	528			
1239209	2	2	14085	3.8	539	1959	2	14085	3.8	539	2	14150	524	2	14464	530
1239480	1	1	14840	3.6	528	1959	1	14840	3.6	528	1	12670	466	1	13745	512
1239739	4	4	10013	3.7	370	1959	1	14040	3.8	530	1	15410	572	1	13723	520
						1960	3	8670	3.7	316	3	14253	530			
1244854	3	4	15053	3.6	546	1959	3	15270	3.6	556	3	14790	556	3	13996	534
						1960	1	15430	3.5	536	1	14520	541	1	13919	510
1244650	20	22	12426	3.8	466	1958	1	12990	3.5	456	1	13480	510	1	12099	441
						1959	15	12270	3.8	460	15	13006	482	4	12298	464
						1960	6	12287	3.8	460	6	11568	429	2	12017	462
1248277	42	56	13134	3.7	477	1958	9	14261	3.6	503	9	12620	477	7	12021	447
						1959	38	12564	3.7	463	37	12410	473	22	12181	467
						1960	9	13409	3.5	468	9	12709	483	4	11647	437
1257052	19	19	13156	3.7	491	1959	11	12716	3.7	473	11	12780	487	5	12428	473
						1960	8	13761	3.8	516	8	11425	415	3	11172	420
1261381	75	78	12923	3.8	494	1958	1	12260	3.9	482	1	12570	471	1	13396	497
						1959	55	13223	3.8	502	55	12717	480	31	13228	498
						1960	22	11984	3.9	467	22	12170	468	9	11657	433
1261382	54	60	12705	3.8	478	1958	2	15735	4.0	629	2	13525	510	2	12791	490
						1959	40	12962	3.8	489	37	12743	485	20	12978	496
						1960	18	12447	3.7	464	18	12086	450	12	12336	457
1264447	12	12	11238	3.9	439	1959	5	10212	4.2	429	5	12420	457	4	11628	449
						1960	7	11970	3.7	446	6	11868	449	4	13298	504
1269686	1	1	9910	4.1	402	1960	1	9910	4.1	402	1	11950	403			
1274586	2	2	13450	3.9	521	1959	2	13450	3.9	521	2	13895	547	1	12350	462
1276894	1	1	11480	3.8	432	1960	1	11480	3.8	432	1	11220	417			
1283111	6	6	13875	3.7	511	1959	1	14010	3.8	538	1	14200	539			
						1960	5	13848	3.7	506	5	13310	495	1	11652	452
1288851	63	64	11398	3.9	446	1959	14	11685	3.9	446	14	12942	494	10	12905	502
						1960	50	11123	3.9	438	42	12612	480	19	12368	466
1293580	1	1	8910	3.6	321	1961	1	8910	3.6	321	1	10120	474	1	11772	443
1298442	2	2	9430	4.7	445	1960	2	9430	4.7	445	2	12005	465			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	HERO AVERAGE MILK LB.	HERO AVERAGE FAT LB.
JERSEY																
375850	1	7	7894	6.0	476	1947	2	7665	6.1	466		7665	466			
						1948	1	7510	6.1	457	1	7510	457			
						1950	1	8460	5.8	491	1	8460	491			
						1951	1	7900	6.0	475						
						1952	1	8350	6.1	513						
						1953	1	7710	6.0	464	1	6150	533	1	5821	320
399328	1	4	9410	5.8	550	1953	1	10270	6.0	621	1	9250	492	1	9832	498
						1954	1	10010	6.1	609	1	8500	465	1	10213	537
						1956	1	9970	5.7	567	1	11710	667	1	9112	475
						1957	1	7390	5.4	461	1	7470	400	1	9189	483
404632	8	34	7489	5.4	401	1948	2	8050	5.4	437	1	7540	400			
						1949	3	6573	5.5	358	1	6680	440			
						1950	9	7597	5.5	404	5	7372	435			
						1951	6	7855	5.6	458	4	8635	446			
						1952	4	8333	5.5	448	3	8073	410			
						1953	4	8053	5.5	456	4	7218	371			
						1954	3	8203	4.7	383	3	7940	413	3	7870	420
						1955	2	9210	4.7	452	2	7445	413	2	7935	465
						1956	1	9510	4.4	417	1	7590	395	1	8121	420
404667	1	2	5410	5.2	282	1953	1	5440	5.0	272	1	8270	430	1	7815	398
						1954	1	5380	5.4	291	1	8640	425	1	8164	403
406575	1	1	4500	6.3	283	1950	1	4500	6.3	283						
408564	2	7	8473	5.3	437	1950	1	6690	5.9	394						
						1951	1	6410	5.8	375						
						1953	1	9890	4.9	480	1	8800	474	1	8916	472
						1954	1	11200	4.7	524	1	10230	537			
						1955	1	10960	5.0	543	1	9070	506			
						1956	1	10430	4.3	452	1	10210	638			
						1957	1	9500	4.6	441	1	11060	560	1	9472	512
416764	1	1	10460	4.6	483	1959	1	10460	4.6	483	1	10100	518	1	8764	440
418760	28	64	6988	5.1	357	1949	2	8310	5.6	404	1	9150	522			
						1950	8	6848	5.2	353						
						1951	10	7775	5.2	403	2	7670	442			
						1952	18	6782	5.2	347	6	7105	399			
						1953	9	7450	5.1	381	4	7495	386	3	7470	462
						1954	8	7921	5.1	402	7	6987	372	7	7885	416
						1955	5	7778	5.3	409	4	8560	442	4	8230	435
						1956	3	7633	5.1	388	3	7435	395	2	8252	447
						1957	1	7800	5.3	414	1	6550	345	1	7205	386
421181	2	3	8453	5.4	438	1951	2	8145	5.4	429						
						1953	1	10930	4.5	496	1	9240	462	1	8916	472
428734	1	1	9400	4.9	464	1953	1	9400	4.9	464						
428873	23	58	7502	5.1	383	1951	3	5817	4.5	266						
						1952	11	8002	5.3	417	8	7656	405			
						1953	13	7538	5.2	394	8	7208	387	7	7299	399
						1954	14	7424	5.2	390	10	7684	405	10	7919	416
						1955	7	7321	5.3	391	5	7902	419	5	7691	414
						1956	4	8050	5.4	433	3	10657	526	3	8284	422
						1957	4	5335	5.5	291	3	7697	394	3	7390	386
						1958	2	5275	5.2	275						
432668	7	13	7088	5.5	385	1950	2	5285	5.9	315						
						1951	3	5623	5.4	304						
						1952	2	9140	5.0	455						
						1953	5	7938	5.3	416	1	9250	516	1	10431	553
						1954	1	10650	5.1	548						
435245	4	15	9086	5.3	481	1952	2	8535	4.8	404	1	6490	351			
						1953	3	9950	5.2	523	1	6950	376	1	8208	423
						1954	2	9175	5.3	491	1	8060	416	1	8142	422
						1955	2	8385	5.7	474						
						1956	2	8765	5.8	502						
						1957	2	8655	5.2	456	1	6200	408	1	7848	426
						1958	1	10760	4.5	488	1	9310	412	1	7510	403
						1959	1	7020	4.2	297	1	7360	366	1	8197	419
437533	1	2	7945	4.8	377	1952	1	9550	4.7	451	1	8850	449			
						1953	1	6340	4.8	302	1	9160	469	1	8905	461
437857	2	2	8530	5.4	462	1951	1	8130	6.0	491	1	6400	387			
						1952	1	8930	4.8	435						
438165	3	14	11570	4.9	573	1953	2	11465	5.0	578	2	8855	455	2	8916	472
						1954	2	11495	5.1	588	1	9750	488			
						1955	3	10153	5.3	542	3	9257	530			
						1957	2	10015	5.1	506	2	10000	509	2	9472	512
						1958	2	11750	5.0	587	1	11020	605	1	10192	509
						1959	2	12715	4.7	601	1	11300	514			
						1960	1	12070	4.6	559	1	10980	566	1	10290	521
438400	1	2	7690	6.4	494	1958	1	9040	6.4	580	1	8550	434	1	8873	435

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.		
						1960	JERSEY 1	6340	6.4	408		1	8380	446				
439203	5	10	7906	5.3	418	1951	3	7927	5.3	422								
						1952	2	8620	5.7	492								
						1953	2	6465	5.8	370								
						1954	1	8620	5.0	427								
						1955	2	8575	5.0	424		1	7620	401		1	7794	391
440663	1	6	7292	5.0	360	1950	1	5790	5.1	293		1	8660	464				
						1953	1	6840	5.5	375		1	7030	381				
						1954	1	7090	5.0	358		1	6360	353		1	6453	353
						1955	1	8770	4.6	400		1	6830	346		1	7205	379
						1956	1	8440	4.9	417		1	7390	428		1	7107	304
						1957	1	6820	4.7	317		1	6980	374		1	7390	411
441066	2	3	9305	5.0	461	1954	2	9345	5.1	472		1	5970	291				
						1955	1	8480	5.0	426						1	7281	366
441751	1	5	8306	5.2	428	1951	1	5710	5.2	297		1	7220	443				
						1952	1	7820	5.2	406		1	9070	501				
						1953	1	8160	5.1	416		1	10170	536		1	7837	459
						1955	1	10190	5.2	527		1	10160	537				
						1956	1	9650	5.1	493		1	9620	547				
443950	1	1	5470	5.4	298	1952	1	5470	5.4	298								
445150	1	1	10900	5.1	552	1954	1	10900	5.1	552								
445454	4	13	7102	5.2	358	1951	1	4920	6.0	293								
						1952	3	8663	5.4	463		2	6625	378				
						1953	1	7730	4.6	358								
						1954	3	7967	5.3	419		2	7500	424		2	7456	416
						1955	1	8560	4.4	375								
						1956	1	7690	5.5	426		1	6680	354		1	7761	422
						1957	1	5360	5.4	291		1	7590	402		1	7205	336
						1958	1	5670	5.3	299		1	5610	311				
						1959	1	7690	4.5	348								
446686	1	4	8525	5.0	430	1951	1	9780	5.2	505		1	9320	524				
						1952	1	9460	5.3	500		1	8120	423				
						1953	1	7840	5.0	389		1	8440	463		1	7514	362
						1954	1	7020	4.6	325		1	8420	480		1	8131	451
449383	6	17	6904	5.2	351	1950	1	6980	5.2	365								
						1951	4	6743	5.4	356		1	6520	337				
						1952	2	6945	5.1	355		1	7040	344				
						1953	3	6950	5.4	375		1	6590	326				
						1954	2	7095	5.6	392		1	5840	307		1	6268	319
						1955	1	9290	4.1	383								
						1956	1	8120	4.5	367								
						1957	2	8565	4.8	406								
						1958	1	6300	4.1	261								
449432	2	4	7307	5.0	366	1954	1	6570	4.9	324								
						1957	1	9220	4.9	453		1	8960	490		1	7924	429
						1958	1	7240	5.2	377								
						1959	1	7670	5.1	392		1	7650	409		1	7477	400
449615	21	53	8843	4.9	432	1952	3	7690	5.0	385		1	7960	401				
						1953	11	8532	5.0	427		7	7246	379		5	8216	425
						1954	14	9496	4.8	455		10	8129	425		3	7794	400
						1955	10	8928	5.1	452		9	3007	425		9	8053	413
						1956	9	8414	5.1	424		8	8329	446		8	8112	416
						1957	3	8553	4.9	421		3	9333	480		3	8091	424
						1958	2	9315	4.9	456		2	8710	436		2	8072	406
						1959	1	12530	4.9	610		1	8000	370		1	8578	426
452574	1	3	7677	5.8	445	1953	1	7290	6.1	443								
						1954	1	8190	5.5	453								
						1955	1	7550	5.8	440								
453722	42	92	7931	4.9	390	1949	3	9510	5.1	483								
						1950	5	7726	4.9	383								
						1951	6	7948	5.1	403		2	7160	403				
						1952	16	6876	5.0	339		6	7095	391				
						1953	17	7786	5.0	388		11	7063	375		10	7361	391
						1954	15	8155	5.0	412		11	7841	421		11	7521	374
						1955	14	7901	5.1	401		9	7320	380		8	7706	406
						1956	9	8216	5.0	411		7	8377	414		4	7799	411
						1957	6	9202	4.9	445		5	8396	408		5	7681	408
						1958	1	11060	4.2	462		1	7510	406		1	6747	350
454049	6	19	8902	5.4	478	1951	2	8545	5.1	435								
						1952	2	8150	5.6	453		1	12110	494				
						1953	6	9127	5.5	496		3	9493	458		4	8916	472
						1954	4	9193	5.4	494		2	9420	481				
						1955	2	8910	5.5	484		2	9460	537				
						1956	2	8690	5.7	485		2	9245	543				
						1957	1	8160	5.3	358		1	9320	516		1	9477	512
454510	8	21	8452	5.1	320	1951	3	6967	4.8	313								
						1952	3	8030	5.3	416		1	6990	402				
						1953	5	6606	5.2	334		4	7305	383		3	7565	399
						1954	5	7944	4.9	385		3	7910	405		4	7726	590
						1955	2	9095	4.7	428		1	7950	405		1	9036	459

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
						1956	1	9360	4.7	445	1	8070	455	1	7695	386
						1957	2	7775	4.7	363	1	7120	388	1	7761	306
457681	24	43	7880	5.0	390	1954	3	7273	5.0	362						
						1955	6	7985	5.3	420						
						1956	4	8560	5.1	420	2	10160	516	2	7603	401
						1957	11	7948	4.9	384	3	8757	432	3	7939	399
						1958	6	8142	5.0	406	3	8597	456	3	8371	445
						1959	10	8047	5.0	403	8	8036	422	4	9134	471
						1960	3	7560	4.9	371	1	8390	451			
460440	2	4	8418	4.9	413	1953	1	9080	5.0	454	1	10010	489	1	8916	472
						1954	1	9360	5.4	508						
						1959	2	7615	4.5	344	1	12060	553			
460676	7	8	10710	5.2	515	1959	2	6440	5.3	342	2	6995	356	1	7477	400
						1960	6	11905	5.2	564	5	9320	497	5	9782	507
462828	2	2	7315	5.0	356	1954	1	10680	4.8	511	1	9290	459			
						1958	1	3950	5.1	200	1	4150	199	1	6802	378
463576	1	1	7580	5.3	401	1960	1	7580	5.3	401	1	6800	360			
464307	17	24	7660	4.8	365	1955	3	8387	4.8	402	1	9920	502			
						1956	4	7978	4.9	379	4	9215	457	3	7445	380
						1957	7	7204	4.7	337	2	7845	393	2	6377	320
						1958	4	7900	4.9	385	1	8440	434	1	9483	480
						1959	5	9624	4.7	450	2	8275	442	1	9134	471
						1960	1	10140	4.5	454						
464308	2	3	9113	4.9	442	1955	1	8060	5.3	431				1	6671	371
						1956	2	9330	5.0	456				1	5842	313
466643	4	8	9324	5.4	507	1959	2	10880	5.1	559	1	10650	513			
						1960	6	9133	5.5	501	2	11625	602	3	10290	521
468196	1	7	8321	5.7	470	1953	1	9090	5.7	522	1	8960	453	1	8905	461
						1954	1	7990	5.7	458	1	8530	443	1	9200	476
						1955	1	9600	5.1	487	1	9120	486	1	8829	475
						1956	1	8690	5.9	511	1	8940	471	1	8153	447
						1957	1	5850	6.2	363	1	7520	428	1	7608	422
						1958	1	9470	5.6	527						
						1959	1	7560	5.6	423	1	6630	373	1	8437	460
468450	16	31	7197	5.2	378	1950	2	7835	5.7	448						
						1951	3	7760	5.0	389						
						1952	5	7872	5.2	408	2	7335	419			
						1953	8	7195	5.4	387	5	7758	405	4	7445	392
						1954	5	7682	5.4	413	4	7290	381	4	8516	447
						1955	3	5897	5.2	309	2	7065	359	2	6998	367
						1956	3	6157	5.4	336	3	7690	397	2	7941	427
						1957	2	5955	5.5	325	2	8870	466	2	7974	417
471787	3	11	7903	5.7	447	1950	2	8405	5.5	460						
						1951	2	7075	5.9	416						
						1952	2	8800	5.9	513						
						1953	2	8195	6.0	482						
						1954	2	9290	5.6	529						
						1955	1	6330	5.8	369						
472114	3	5	8106	5.2	421	1959	3	8863	5.1	445	1	10700	517			
						1960	2	9220	5.1	471	2	9370	479	1	10290	521
479985	5	14	7091	5.4	376	1952	3	8213	5.1	420	2	6855	366			
						1953	2	7500	5.5	401	2	6875	348	1	7892	395
						1954	4	6988	5.5	376	4	8515	450	4	6791	363
						1955	2	8470	4.6	385	2	7735	417	2	7603	410
						1956	1	5180	5.0	258	1	7100	382	1	7761	422
						1957	1	6830	5.2	353	1	7100	381	1	7205	386
						1958	1	6140	5.9	363	1	5380	279			
484663	1	3	8487	5.8	490	1956	1	9430	5.9	559						
						1957	1	8720	5.5	403						
						1958	1	7310	5.9	428						
486357	1	1	10250	5.0	516	1954	1	10250	5.0	516						
487621	10	32	7036	5.5	383	1951	1	6650	5.5	366						
						1952	7	6389	5.6	350	3	6790	362			
						1953	6	7538	5.4	409	4	7060	368	4	7486	391
						1954	4	7435	5.3	392	4	8118	411	4	7502	302
						1955	4	8968	5.1	460	4	8343	423	4	8622	436
						1956	3	8770	5.2	458	3	9303	485	2	8737	440
						1957	3	8860	5.1	452	3	8960	441	3	8716	441
						1958	2	8880	4.7	415	2	7470	364	2	8415	406
						1959	2	7740	5.2	399	1	7060	347			



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT.MP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
489890	1	1	12320	4.7	576	1955	1	12320	4.7	576	1	8780	429	1	8862	440
490707	1	2	7660	3.7	286	1959	2	7660	3.7	286	1	8260	433	1	8186	434
497599	4	8	8625	5.3	456	1959	6	8566	5.3	458	4	9265	469	1	8742	441
						1960	2	11715	5.6	653	1	9690	520	1	10202	556
500874	2	2	7960	4.7	374	1959	1	9350	4.7	444	1	8380	406	1	8197	419
						1960	1	6570	4.6	304						
501287	70	98	7359	5.4	391	1953	4	6878	5.8	389	1	0780	460	1	8012	412
						1954	4	6393	5.6	357	1	5720	316	1	6431	355
						1955	7	7935	5.5	429	4	8935	459	2	8622	456
						1956	11	7278	5.3	379	9	8094	426	9	0214	422
						1957	14	6727	5.3	351	5	8142	417	6	8035	416
						1958	18	7437	5.3	388	12	7698	387	10	7784	405
						1959	29	7922	5.3	422	26	7948	415	7	6469	435
						1960	11	8502	5.3	440	7	7717	395	4	7581	392
502114	3	3	8893	5.2	457	1959	3	8893	5.2	457	2	9885	548	1	8415	469
502220	3	4	6957	5.5	386	1958	3	7117	5.5	395	2	9025	466	2	7990	422
						1960	1	5840	5.3	310						
504455	2	4	6992	5.4	378	1956	1	7060	5.1	362	1	6210	324	1	7804	398
						1957	2	6680	5.5	363	2	6730	372	2	7641	404
						1958	1	9370	5.1	481						
504888	7	9	8024	5.1	408	1959	8	8295	5.3	437	5	8356	436	3	8277	433
						1960	1	9430	4.5	426	1	7960	397			
505057	2	2	9475	4.3	403	1958	2	9475	4.3	403						
506502	1	3	6040	5.3	320	1958	2	7060	5.3	370	1	5900	321	1	7009	362
						1959	1	4000	5.5	221	1	7720	397			
506697	1	1	7780	5.4	422	1959	1	7780	5.4	422	1	7390	404			
509519	1	1	3920	5.6	218	1954	1	3920	5.6	218	1	7550	446	1	6682	389
512775	9	16	7330	5.2	373	1953	8	7721	5.1	383	6	7747	385	7	7948	403
						1954	4	7750	5.2	394	4	7588	399	4	7578	394
						1955	3	7810	4.8	366	2	7250	374	2	7227	373
						1956	1	5280	5.4	286	1	6670	361	1	7488	386
514629	19	26	7214	5.4	396	1956	2	5780	5.2	298	2	7295	375	1	7336	385
						1957	6	7447	5.4	404	3	10197	531	4	8268	419
						1958	5	6760	5.4	367	2	8330	414	2	8301	425
						1959	9	6806	5.5	376	7	8351	416	4	8341	427
						1960	4	8403	5.6	469	2	7675	381			
516472	8	22	8207	5.2	425	1952	1	9310	4.7	442	1	7760	391			
						1953	2	8255	5.3	436	2	7355	372	1	7892	395
						1954	6	8995	5.1	457	5	8268	427	3	7725	403
						1955	7	8157	5.1	418	5	8312	428	4	8058	412
						1956	4	8273	5.0	418	3	8445	429	1	8371	435
						1957	2	6995	5.3	371	2	7165	376	2	7091	369
516473	22	45	6653	5.0	330	1953	6	7383	5.1	374	3	8020	466	4	8399	447
						1954	14	6851	5.0	344	7	7335	391	3	8862	468
						1955	10	7399	4.9	365	4	7523	375	5	7850	403
						1956	8	6153	5.0	312	4	7063	366	1	8121	431
						1957	2	7075	4.7	352						
						1958	4	7280	4.9	352	1	6010	284	1	6431	331
						1959	1	5790	4.5	259						
516474	4	6	8155	5.3	429	1953	1	9430	5.7	535	1	7840	399	1	8905	498
						1954	2	9250	5.4	497	1	7020	366	2	8726	465
						1955	2	7025	5.0	352	1	10490	553			
						1956	1	6820	5.3	360						
517080	1	1	6360	4.9	314	1955	1	6360	4.9	314	1	6980	366	1	8709	428
517081	5	6	7194	5.5	387	1954	2	8110	5.5	440	2	5330	320	2	6562	336
						1956	1	4070	5.6	234						
						1957	1	4250	5.4	250						
						1959	1	9960	4.9	470	1	10200	516	1	8851	436
						1960	1	5630	5.9	352	1	6150	359			
517082	2	6	5935	5.8	339	1953	1	6760	6.1	415	1	6650	332	1	7129	375
						1954	1	5970	4.6	272	1	6900	348	1	6965	368
						1955	1	4530	6.3	285						
						1956	1	5220	6.1	320						
						1957	1	5930	5.9	351						
						1958	1	6340	5.9	375						
517843	8	13	8270	5.3	431	1952	1	8190	5.0	408						
						1953	2	8110	5.7	464	1	7010	433	1	7368	393
						1954	1	7050	5.7	403	1	7860	409	1	7576	400
						1957	2	7935	5.6	438	1	8850	446	1	8894	453
						1959	5	8548	5.2	440	5	8500	426	4	8551	434
						1960	2	8010	5.0	401	1	8570	417			
519937	19	27	7015	5.3	366	1954	1	6440	5.3	343	1	8870	459	1	7848	407
						1955	4	6985	5.2	363	2	8635	430	1	8088	405
						1956	6	6485	5.4	351	4	8630	454	4	7532	397
						1957	2	7925	5.2	409						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
JERSEY																	
						1958	6	7628	5.5	413	3	8197	434		3	7961	426
						1959	3	8357	5.0	415	2	6955	330				
						1960	5	7338	5.1	374	5	7582	385		3	8164	418
520051	1	1	8380	5.9	491	1959	1	8380	5.9	491	1	7310	396				
520270	1	1	8170	5.7	463	1958	1	8170	5.7	463	1	8250	345		1	8175	387
521598	1	1	8140	5.0	409	1960	1	8140	5.0	409	1	9030	466		1	7270	384
531272	1	1	4710	5.5	257	1958	1	4710	5.5	257							
534366	4	9	8917	5.3	470	1958	3	11017	5.3	576	1	9660	514		1	8775	467
						1959	5	8136	5.4	436	2	7820	399		2	8186	434
						1960	1	6350	4.9	312	1	7090	384				
536839	29	46	8034	5.2	410	1955	1	9840	5.6	554	1	7950	423				
						1956	5	10312	5.0	510	4	9463	474		4	7551	389
						1957	13	8669	5.1	441	9	9058	455		9	8652	438
						1958	12	8202	5.2	418	9	7793	403		8	8128	421
						1959	11	7282	5.3	375	9	7123	371				
						1960	4	6298	5.0	319	5	7533	355		2	8312	365
537666	1	1	9060	5.1	462	1960	1	9060	5.1	462	1	9270	451		1	9854	507
540148	1	1	6950	5.5	384	1958	1	6950	5.5	384							
540967	65	75	7659	5.3	404	1957	1	4580	4.8	221	1	7060	384		1	7281	363
						1958	12	6726	5.3	352	10	8253	418		10	7954	405
						1959	56	7851	5.4	420	31	8065	420		16	8723	453
						1960	26	8034	5.2	419	21	7953	414		13	8098	420
541601	17	23	7708	5.1	388	1958	9	8548	4.9	414	6	8752	440		6	7890	414
						1959	8	7660	4.8	359	7	7529	379		3	8197	419
						1960	6	8018	5.4	427	5	8154	434		4	8031	420
541603	24	29	7883	5.0	396	1957	1	8830	5.1	453							
						1958	2	7290	5.4	397	1	8630	421		1	8938	449
						1959	19	7987	5.0	400	16	8711	437		6	8967	462
						1960	7	6216	5.0	414	5	7840	408		3	8546	457
544984	23	25	7988	5.5	422	1958	5	7736	5.3	410	3	7840	414		3	8448	458
						1959	13	8905	5.7	467	12	7511	389		5	8587	446
						1960	7	6589	5.5	364	4	7405	379		2	8104	418
546648	2	4	7457	5.1	379	1958	1	9110	5.3	484	1	9890	522		1	8600	464
						1959	1	7430	5.0	373	1	9120	482				
						1960	2	7250	5.2	375	2	8930	480		2	7995	431
550196	1	1	7090	4.7	335	1959	1	7090	4.7	335	1	7620	327				
550723	2	2	6030	4.6	274	1958	1	4600	4.8	221							
						1959	1	7460	4.4	326	1	8100	412		1	8764	440
552599	1	1	9960	4.1	407	1960	1	9960	4.1	407	1	6340	500				
553507	1	1	11610	4.4	508	1959	1	11610	4.4	508	1	8440	407				
557267	6	7	6274	5.4	333	1959	2	4560	5.4	257	2	7210	367		1	8764	440
						1960	5	6322	5.3	327	5	5822	308		1	6507	357
557268	9	12	6931	5.7	390	1959	6	7740	5.7	435	4	7810	427		3	8462	456
						1960	6	6530	5.8	376	6	6618	378				
558300	1	1	6450	6.0	389	1959	1	6450	6.0	389	1	6660	375		1	8437	460
562740	1	1	8550	5.5	466	1960	1	8550	5.5	466	1	9020	440				
569526	1	1	8970	5.6	503	1960	1	8970	5.6	503	1	8390	426				
569723	4	5	6913	5.4	370	1959	2	8605	5.6	480	2	8125	455		1	9134	471
						1960	5	5653	5.4	299	5	7607	390		3	8004	415
570643	4	4	8318	5.0	418	1959	3	8440	4.9	412	3	7243	405		1	8437	460
						1960	1	7950	5.5	437	1	8290	437		1	10050	516

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
34846	1	6	8673	4.1	35b	1947	2	11690	4.2	490						
						1948	1	7560	3.9	288						
						1949	1	6520	3.7	242						
						1950	1	8710	4.0	348						
						1955	1	6070	4.8	292	1	8200	362			
37565	24	94	11377	4.2	486	1948	1	12750	4.1	521						
						1949	6	10260	4.2	432	3	11217	444			
						1950	8	11736	4.2	489	3	10500	435			
						1951	9	11291	4.1	466	3	10857	464			
						1952	15	12468	4.3	538	11	11728	494			
						1953	18	12878	4.3	555	13	11538	474	11	11752	501
						1954	12	11291	4.2	481	8	12081	499	7	11559	493
						1955	10	11458	4.3	495	8	12010	484	4	11336	490
						1956	8	11150	4.1	460	6	12458	498	4	11170	468
						1957	5	12064	4.2	502	3	11607	486	2	11516	493
						1959	2	10505	4.1	428	1	10420	439	1	10115	422
39593	1	1	11360	4.6	524	1950	1	11360	4.6	524						
39613	1	1	9460	4.2	394	1947	1	9460	4.2	394						
41769	2	2	10055	3.6	364	1948	2	10055	3.6	364						
42937	1	2	9335	4.4	404	1953	1	9630	4.4	423	1	13030	546	1	10747	454
						1954	1	9040	4.3	385	1	10570	461	1	12502	517
43108	1	1	5070	3.9	196	1954	1	5070	3.9	196						
44741	3	3	6920	3.6	253	1947	3	6920	3.6	253						
46379	2	2	7850	4.4	341	1953	1	7920	4.4	348	1	9360	368			
						1959	1	7780	4.3	334						
48344	1	1	10740	4.0	430	1953	1	10740	4.0	430						
50482	1	2	11005	4.2	460	1953	1	11940	4.3	512	1	14600	597	1	11401	451
						1954	1	10070	4.0	407	1	12820	503	1	12437	475
51258	41	95	10663	4.1	430	1951	3	11917	4.1	476	1	12370	511			
						1952	11	10966	4.0	437	6	11780	462			
						1953	23	10353	4.1	418	17	11697	472	16	10353	421
						1954	14	10921	4.0	434	12	10990	447	10	10985	443
						1955	12	10795	4.0	432	10	11619	472	8	11071	447
						1956	12	10277	4.1	415	8	11355	461	9	10762	444
						1957	7	11030	4.0	437	6	11935	491	6	11530	470
						1958	3	11810	3.8	451	2	11035	472	2	11745	489
						1959	6	12189	3.9	475	6	11735	462	5	10207	412
						1960	2	11805	4.0	474	2	10580	446			
51890	2	2	11420	3.7	423	1956	1	11510	3.6	410	1	9916	382			
						1957	1	11330	3.6	435						
53913	3	5	10978	4.1	459	1958	3	9693	4.4	442	1	12510	503	1	12840	520
						1959	2	15040	4.2	629	2	12925	543	2	12012	510
54160	1	1	8790	4.3	379	1959	1	8790	4.3	379	1	11230	457	1	10802	469
57594	1	6	13163	4.0	527	1952	1	14240	3.9	562	1	12470	507			
						1953	1	15180	3.8	584	1	14290	557	1	11650	487
						1955	1	4130	4.0	165	1	11970	490			
						1956	1	16260	4.0	648	1	13600	583	1	12197	504
						1957	1	14690	4.2	612	1	10670	457	1	14802	600
						1958	1	14480	4.1	588				1	15064	596
58096	1	2	9785	4.2	413	1949	1	11220	4.4	490						
						1950	1	8350	4.0	336						
58918	1	3	14437	4.1	593	1954	1	14230	4.0	574	1	8030	331	1	10006	461
						1956	1	16610	4.1	674	1	10540	411	1	11183	454
						1957	1	12470	4.3	532	1	13100	555			
59699	3	3	10360	4.2	437	1954	2	10685	4.3	455	1	12190	473	1	12012	463
						1956	1	9710	4.1	402	1	10070	383			
59815	1	1	12690	4.0	513	1959	1	12690	4.0	513	1	10100	410			
59936	1	2	10140	3.6	369	1959	2	10140	3.6	369	1	12360	500	1	10519	441
60138	23	65	10415	4.2	434	1951	1	12510	4.0	499						
						1952	10	11608	4.2	468	3	10967	465			
						1953	14	11466	4.1	476	9	11402	462	7	10763	457
						1954	14	10983	4.1	449	11	11501	477	9	10314	425
						1955	10	9774	4.1	398	9	12069	488	8	11605	472
						1956	9	9466	4.2	397	7	11611	486	7	10863	448
						1957	5	8742	4.4	393	4	10385	455	2	9570	425
						1958	1	7430	4.1	307						
						1959	1	8620	4.0	344	1	9940	412	1	9221	366
61381	1	3	13920	4.2	590	1952	1	14410	4.1	595						
						1953	1	13890	4.3	603	1	15200	670	1	13124	502
						1954	1	13460	4.2	571	1	11160	483	1	11663	496

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
BROWN SWISS																
61560	105	205	11008	4.4	479	1954	2	11625	4.2	492	1	10190	448			
						1955	20	11060	4.3	482	17	11761	475	15	11451	469
						1956	35	11182	4.4	494	29	11787	482	30	11154	456
						1957	42	11366	4.4	494	26	11176	460	30	11379	475
						1958	46	11728	4.5	518	23	12335	505	24	11893	485
						1959	43	11288	4.3	485	36	11347	476	18	11047	456
						1960	15	11415	4.3	488	12	11194	478	5	10072	451
62228	4	9	10513	4.4	453	1953	1	11970	4.5	542	1	11690	475	1	12862	534
						1954	1	12550	3.9	465	1	10140	404			
						1955	1	6340	5.3	334	1	10050	390	1	11096	438
						1956	1	10380	3.8	392	1	9890	401	1	10889	437
						1957	1	11280	3.9	440	1	10790	447	1	9243	374
						1958	3	12025	4.1	488	2	11060	442	1	9450	396
						1960	1	8660	3.6	314	1	9870	360			
62834	2	2	6795	4.3	288	1955	1	9240	4.2	387						
						1957	1	4350	4.3	188	1	10770	470	1	7445	304
64773	4	7	9929	3.8	382	1956	1	9070	3.1	285	1	10360	418	1	9995	402
						1957	1	9410	3.9	366	1	10630	422	1	10050	404
						1958	1	8840	3.5	312	1	9960	370	1	10562	414
						1959	4	10760	4.2	452	1	12000	487	1	10602	469
64837	10	20	10411	4.0	414	1953	1	11430	3.6	414	1	10540	427	1	10366	400
						1954	1	12850	3.9	505	1	9830	407	1	9875	392
						1955	2	11050	4.0	436	2	10860	454	2	11592	465
						1956	3	11350	3.9	442	3	11110	420	3	11391	450
						1957	1	9880	3.9	382	1	11180	426	1	11205	416
						1958	5	8892	4.0	353	3	11337	458	3	11195	446
						1959	5	11440	4.0	457	5	11062	432	3	9654	398
						1960	2	11065	4.0	437	2	12240	477			
64879	3	4	12018	4.1	487	1955	1	12200	3.7	446	1	11910	471			
						1957	1	13270	3.6	502	1	11940	509	1	12862	529
						1958	2	11660	4.2	494	2	11660	486	2	10944	455
65421	1	1	8180	4.6	377	1959	1	8180	4.6	377	1	10940	465			
66318	199	408	11012	4.2	454	1952	11	11224	4.1	458	9	11547	469			
						1953	39	11204	4.2	465	23	11498	473	29	10742	446
						1954	60	11200	4.2	461	49	11421	466	45	10765	441
						1955	61	11609	4.0	466	51	11444	465	47	11192	456
						1956	54	11749	4.1	485	45	12339	507	43	11611	473
						1957	56	11624	4.1	475	40	11759	492	39	12017	470
						1958	63	11051	4.1	449	50	11567	477	29	11273	462
						1959	55	11429	4.2	473	37	10887	455	19	10707	439
						1960	9	11312	4.1	467	6	11663	469	3	10335	411
						66934	1	1	6220	4.9	308	1954	1	6220	4.9	308
67525	1	2	11890	3.8	448	1954	1	14100	3.7	524	1	11450	464	1	10737	446
						1955	1	9680	3.9	372	1	12330	488	1	11292	453
68741	7	14	11050	4.1	444	1954	1	13860	4.3	590	1	12340	508	1	11369	468
						1956	1	11420	3.8	429	1	9500	378	1	9134	371
						1957	1	9300	3.8	355	1	11570	470	1	9777	396
						1958	6	11090	4.4	469	3	10687	433	3	10326	405
						1959	3	12057	3.9	466	2	9325	375	2	9897	399
						1960	2	11670	3.9	453	2	9855	401			
69439	27	61	11760	4.0	465	1952	1	15060	3.9	590	1	10570	460			
						1953	8	12635	4.0	499	8	11656	482	8	10766	447
						1954	10	12549	4.0	493	9	11926	478	9	10969	450
						1955	6	12025	3.9	468	6	12412	504	6	11389	471
						1956	8	13753	3.9	526	7	11950	492	7	11384	466
						1957	11	12412	3.8	474	10	12317	506	11	12096	490
						1958	9	11066	4.1	455	6	12133	503	6	11078	462
						1959	6	11922	4.0	462	5	11860	485	4	10426	438
1960	2	10620	4.0	417	2	9405	378									
69978	1	1	12500	4.1	514	1957	1	12500	4.1	514	1	11170	470	1	12055	495
70012	3	5	10443	4.0	412	1958	3	10745	3.8	402	2	10875	445	2	9669	399
						1959	1	11390	4.0	461	1	11140	439			
						1960	1	10410	3.9	404	1	11630	478			
70409	5	12	10993	4.2	461	1956	1	9380	4.4	415	1	10600	422	1	9995	402
						1957	1	12466	4.2	522	1	10550	397	1	9777	387
						1958	2	10155	4.1	423	1	11830	456	1	11761	467
						1959	6	10872	4.2	458	5	10168	430	2	10268	428
						1960	2	10870	4.3	466	2	10315	434			
70627	1	3	10973	4.3	473	1958	2	11850	4.4	517	1	12370	506	1	10944	455
						1959	1	9220	4.2	385	1	11930	483			
70757	1	1	10010	4.1	415	1959	1	10010	4.1	415	1	12160	492			
71009	1	1	9420	4.6	431	1955	1	9420	4.6	431	1	8760	362	1	8513	354
71866	1	1	8630	4.3	372	1958	1	8630	4.3	372	1	10470	447	1	9352	366
71920	1	2	9560	4.1	388	1955	1	10260	4.3	430	1	14010	551	1	11096	438
						1956	1	8860	3.8	338	1	10140	397	1	8360	335

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
BROWN SWISS																	
72394	3	4	11252	4.2	475	1953	1	7830	4.3	337	1	13670	554		1	11630	487
						1954	1	11820	4.3	508	1	15120	570	1	13701	546	
						1959	1	13550	4.2	574	1	11420	439				
						1960	1	10380	4.1	427	1	9510	393				
72823	10	30	11112	4.0	447	1953	1	11450	4.2	466	1	13370	564	1	12622	506	
						1954	7	11194	4.0	447	3	11113	462	5	9121	400	
						1955	6	11932	4.1	483	4	11400	462	6	10371	456	
						1956	6	12473	4.0	498	5	11468	473	6	11067	464	
						1957	5	10724	4.1	439	4	10575	445	5	10109	421	
						1958	4	13130	3.8	501	1	12780	535	1	12797	533	
						1959	1	10850	3.6	396	1	11580	470	1	11707	471	
72896	3	5	12554	4.0	509	1958	2	11910	4.0	476	1	12170	556				
						1959	1	11060	3.9	432	1	10770	451	1	11903	519	
						1960	2	14505	4.2	599	2	12475	530				
72898	2	3	10500	4.6	478	1958	2	11220	4.6	515	2	12785	566	1	11859	521	
						1959	1	9300	4.4	410	1	10930	453	1	11903	519	
72949	28	44	8971	4.2	372	1954	4	9818	4.3	414	2	12070	494	3	9919	401	
						1955	7	8261	4.1	338	4	10520	426	4	9805	407	
						1956	5	10080	4.1	411	4	9955	387	4	10287	401	
						1957	9	7866	4.1	329	5	10144	417	4	9540	379	
						1958	9	10311	4.1	426	4	10275	409	4	9183	375	
						1959	7	11633	4.1	478	7	11573	475	6	11146	449	
						1960	3	6207	4.0	249	2	10405	407				
73502	1	1	7570	4.2	320	1955	1	7570	4.2	320							
74191	1	1	11790	4.0	467	1959	1	11790	4.0	467	1	11310	496				
74637	19	35	10899	4.1	450	1954	3	11303	3.7	418	2	11475	395	3	9570	368	
						1955	8	9816	4.3	419	7	10660	435	6	11213	452	
						1956	7	10196	4.3	434	7	9836	402	5	10536	440	
						1957	4	13588	4.3	579	3	10900	485	4	10862	462	
						1958	3	10983	4.1	453	3	11560	487	3	11721	487	
						1959	7	12031	4.2	503	5	12242	484	4	11347	455	
						1960	3	11297	4.0	450	2	11775	474	2	11107	456	
75281	1	3	9320	4.4	411	1955	1	7380	4.1	305	1	11760	486	1	8807	354	
						1956	1	8960	4.3	381	1	10540	450	1	8764	364	
						1957	1	11620	4.7	547	1	11770	526	1	8905	382	
75369	1	2	12985	4.8	621	1958	1	13010	4.6	604	1	13400	566	1	12415	488	
						1959	1	12960	4.9	638	1	12810	538				
75432	1	1	11090	4.2	469	1958	1	11090	4.2	469							
76059	3	10	10639	4.3	455	1954	1	12060	4.2	505	1	11480	460				
						1956	2	12375	4.5	552				2	11914	504	
						1957	2	10440	4.4	458	2	11500	436	2	11837	491	
						1958	3	10437	4.3	441	2	12040	492	2	10503	438	
						1959	2	9370	4.0	376	1	10700	440	1	10802	469	
76903	1	3	10047	4.4	440	1953	1	8910	4.3	386	1	9930	406	1	10170	431	
						1954	1	9760	4.2	408	1	10600	439	1	7990	329	
						1956	1	11470	4.6	525	1	12660	510	1	10769	447	
77195	2	2	8565	4.1	352	1957	1	8100	4.0	324	1	9890	415	1	9221	380	
						1959	1	9030	4.2	379							
77319	1	2	13840	4.0	546	1959	1	13830	4.0	550	1	11400	480				
						1960	1	13850	3.9	541	1	15950	636				
77775	1	1	10010	4.3	430	1959	1	10010	4.3	430	1	7190	278	1	10268	428	
78152	1	1	9690	4.1	400	1959	1	9690	4.1	400	1	12350	539				
80699	3	5	9339	3.9	367	1956	1	10960	4.2	458							
						1957	2	8990	4.0	358	1	10640	422	1	10050	404	
						1958	2	8615	4.1	345	1	9860	404	1	10083	415	
81652	5	8	9395	4.1	385	1957	3	10173	4.0	398	3	10250	419	3	9428	383	
						1958	2	8485	4.1	345	1	9080	367	1	8393	343	
						1959	3	9937	4.1	406	2	8400	332	2	9516	389	
82405	20	30	11030	4.2	462	1952	1	7930	4.3	341							
						1953	3	11140	4.4	482	1	13510	547	1	11630	487	
						1954	3	9617	4.0	387	1	12950	520				
						1955	3	13917	4.2	586	3	11560	479	2	11947	505	
						1956	4	11670	4.1	482	2	11040	426	1	10889	437	
						1957	4	10473	4.1	425	3	10810	455	3	10071	418	
						1958	6	10608	4.3	454	1	11600	494	1	12840	520	
						1959	6	9173	4.4	402	4	11753	471	3	10773	453	
82516	2	3	13105	4.3	550	1956	1	14530	3.8	546	1	11990	496	1	12099	496	
						1958	2	12405	4.3	535	1	12000	507	1	10944	455	
83625	1	4	13780	3.8	528	1956	1	14100	3.7	525	1	12520	489	1	12633	496	
						1958	1	12630	4.0	503	1	12600	503	1	11619	473	



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
						1959	BROWN 2	SWISS 14195	3.8	543		2	12020	523		
84812	1	1	8750	5.1	444	1959	1	8750	5.1	444	1	12040	487		1	10802 469
84963	50	90	10649	4.1	441	1953	3	11343	4.1	464	3	11903	462		3	10969 428
						1954	13	10689	4.1	441	12	11258	464		11	10785 444
						1955	21	11153	4.2	470	18	11543	467		16	11007 450
						1956	17	11752	4.1	481	15	12163	515		15	12085 486
						1957	20	10398	4.1	428	18	11628	478		13	12168 496
						1958	9	11559	4.0	459	7	11117	467		7	11317 474
						1959	5	12198	3.9	477	4	11030	471		2	11069 457
						1960	2	10675	4.1	429	2	10095	394			
85003	169	296	11238	4.2	470	1952	5	9558	4.7	450	3	10387	457			
						1953	26	11877	4.3	506	20	11799	486		14	10637 440
						1954	33	11321	4.2	477	26	12158	498		23	10957 454
						1955	30	11788	4.1	478	20	12112	486		24	11781 479
						1956	29	12341	4.1	501	24	12443	508		25	11621 470
						1957	34	10803	4.1	457	26	11813	488		22	11201 456
						1958	52	10947	4.1	453	17	10951	462		13	11122 467
						1959	58	11566	4.3	492	39	11207	469		21	11041 459
						1960	29	11026	4.2	456	20	11566	462		6	11133 457
85338	1	2	9175	4.2	386	1954	1	7936	4.2	333	1	10740	387		1	10824 408
						1955	1	10470	4.2	438	1	10110	376		1	11205 414
86498	1	1	14770	4.0	595	1958	1	14770	4.0	595	1	13610	543		1	15064 596
87630	200	351	11340	4.1	464	1953	15	10503	4.2	439	12	11803	493		13	11254 458
						1954	25	11242	4.2	469	21	11693	482		19	11416 473
						1955	47	11798	4.0	476	40	11865	488		37	11622 477
						1956	37	11481	4.1	472	32	12288	515		31	11434 472
						1957	50	11110	4.6	447	41	11794	491		37	11251 463
						1958	69	11579	4.1	470	28	11701	486		26	11604 470
						1959	78	11348	4.1	464	56	11263	469		35	10849 452
						1960	30	11696	4.0	470	24	11433	461		7	11327 478
87681	4	7	8146	4.2	337	1957	2	9370	4.1	378	2	11100	450		2	9014 365
						1958	2	9385	4.2	388						
						1959	3	8636	4.2	359	3	9870	389		3	8764 350
90848	2	4	13945	4.3	589	1958	4	13945	4.3	589	2	12040	495		2	10944 455
91234	12	15	10352	3.9	406	1954	1	7260	3.0	221	1	7770	267		1	7259 308
						1955	1	8580	3.5	299						
						1956	1	7040	4.1	288	1	9420	382		1	8055 331
						1957	3	9687	3.9	376	2	11945	479		2	9156 372
						1958	6	11787	4.2	491						
						1959	3	11817	3.9	460	3	10530	438		2	9739 385
91856	2	2	7565	4.1	316	1953	1	4080	3.9	192	1	9040	389			
						1958	1	10250	4.3	439						
94593	1	1	10810	4.6	493	1953	1	10810	4.6	493	1	11640	488		1	12829 525
94606	7	11	10349	4.3	443	1955	1	12660	4.3	339	1	12190	495		1	11314 444
						1956	2	9010	4.1	369	2	9665	358		2	9843 401
						1957	2	9246	4.1	376	2	10115	398		2	9674 370
						1958	3	10720	4.5	475	2	10285	412		2	9472 370
						1959	3	10507	4.4	459	2	10725	422		2	9527 402
94773	2	3	11185	4.3	475	1959	2	11460	4.3	489	2	10915	442			
						1960	1	10670	3.6	415	1	12560	459			
96441	1	2	10700	4.8	509	1958	2	10700	4.8	509	1	10960	456		1	10606 475
99438	7	10	9679	4.1	389	1956	3	9780	3.8	363	3	9923	403		3	10151 412
						1957	1	11730	3.5	406	1	11990	483		1	11205 416
						1958	2	10800	3.8	413	1	8570	361		1	10672 397
						1959	3	9227	4.3	394	3	11077	475		1	9647 390
						1960	1	9810	4.1	402	1	9620	340			
101807	2	2	11945	3.8	448	1959	2	11945	3.8	448	2	11090	450		2	10732 445
102187	152	245	10349	4.4	458	1954	2	11700	4.6	533	2	12165	474		2	10437 425
						1955	26	10165	4.4	449	24	11682	470		19	11711 478
						1956	42	10577	4.5	472	36	12016	487		36	11244 462
						1957	36	9924	4.5	445	26	11516	475		25	11276 464
						1958	51	10583	4.4	466	31	11574	474		27	11037 453
						1959	69	10502	4.4	461	53	11070	455		24	10625 441
						1960	19	10685	4.4	441	17	11074	450		5	9985 424
102954	28	37	12550	4.2	527	1959	23	13098	4.3	565	17	11738	501		7	10950 455
						1960	14	11926	4.2	494	12	11286	471		3	10642 429
103408	1	1	11110	4.8	533	1959	1	11110	4.8	533						
104152	32	55	10643	4.1	441	1955	4	12700	4.1	525	3	11550	525		3	11271 471
						1956	7	10619	4.1	433	5	11044	445		5	10296 424
						1957	13	9978	4.2	417	8	11164	459		8	10760 425

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR									
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONT.	RECORDS NO.	MILK LB.	TEST PCT.	YEARLY HERD AVERAGE
							BROWN	SWISS							
						1958	14	10671	4.1	437	8	12269	508	9	10860 442
						1959	13	12055	4.1	495	10	12466	507	9	12174 423
						1960	4	11205	4.2	469	2	11010	461	2	10835 457
104852	1	1	13220	3.7	487	1959	1	13220	3.7	487	1	11320	463	1	11903 519
106482	1	2	13220	4.3	560	1957	1	13930	4.1	572	1	8930	418	1	8905 397
						1958	1	12510	4.4	547					
106761	3	4	11120	4.3	475	1959	2	11280	4.4	494	1	10590	432	1	10192 431
						1960	2	11040	4.3	466	1	10580	431		
106901	3	5	11258	4.6	522	1958	3	11503	4.7	549	2	11390	469	1	10606 410
						1959	1	10860	4.4	483	1	10470	461	1	11053 472
						1960	1	11690	4.8	562	1	12930	544		
107291	6	12	10857	4.0	432	1955	1	13610	4.2	575	1	11090	448	1	9374 382
						1956	1	12320	4.5	558	1	9770	383	1	10769 455
						1958	4	13268	4.2	555	3	11933	467	3	11227 443
						1959	4	10665	4.0	422	4	11328	467	4	11375 477
						1960	2	10130	4.0	402	2	9555	383	1	7270 310
107491	1	1	10280	4.4	454	1957	1	10280	4.4	454	1	11320	454		
109762	64	79	10938	4.2	456	1958	23	12120	4.1	490	15	11235	463	14	11450 465
						1959	44	10980	4.2	460	35	11136	463	19	11135 459
						1960	12	9782	4.3	419	10	10314	424	5	10344 447
109851	1	5	10556	4.7	489	1959	4	10560	4.6	482	1	14630	547	1	11162 480
						1960	1	10540	4.9	516	1	9920	414		
110355	20	25	12394	4.0	497	1956	1	15110	3.9	586	1	9230	436	1	10933 471
						1957	4	10013	4.0	399	4	9768	396	4	9205 366
						1958	7	10436	3.9	408	3	10150	409	3	9490 396
						1959	10	12961	4.0	520	9	11944	475	6	12137 434
						1960	3	14997	4.1	615	2	12500	518	2	11734 489
113180	64	101	10785	4.4	477	1956	2	12985	4.4	570	1	10880	452	1	12513 521
						1957	18	11807	4.5	530	13	12772	536	12	12714 520
						1958	29	10640	4.5	474	17	11640	490	16	11434 472
						1959	35	11120	4.4	483	25	11530	464	16	10812 448
						1960	17	10569	4.5	478	11	10661	438	2	11653 499
114123	2	2	10200	4.6	462	1960	2	10200	4.6	462				1	12241 496
116055	94	121	10644	4.2	447	1956	1	17690	3.4	605	1	14640	585	1	13647 545
						1957	16	10218	4.2	425	13	12222	498	11	12104 488
						1958	27	10723	4.3	458	11	11706	499	11	12269 508
						1959	49	10800	4.2	456	36	11188	471	24	11122 459
						1960	28	10625	4.1	435	19	12067	506	3	11525 505
116177	1	4	14145	3.9	558	1956	1	15100	3.8	578	1	12420	499	1	12077 436
						1957	1	14510	3.8	556	1	12070	493	1	11977 436
						1958	1	13150	4.1	543	1	13320	571	1	12415 488
						1960	1	13820	4.0	556	1	10640	445		
116729	2	3	12995	4.2	535	1959	3	13310	4.1	545	3	11313	465	1	11903 519
117125	3	3	11220	4.2	471	1958	1	12080	4.1	491	1	13900	550	1	15064 596
						1960	2	10790	4.3	461	2	10115	443		
120033	51	58	11956	4.2	500	1957	2	16745	4.2	697	2	11255	488	2	9794 427
						1958	9	11713	4.0	475	4	10088	419	4	11397 473
						1959	26	11900	4.3	502	19	11537	468	12	11249 466
						1960	21	11718	4.2	488	18	10947	457	5	9899 417
120226	1	1	12140	3.8	467	1960	1	12140	3.8	467	1	9520	404		
120560	3	3	8333	4.0	332	1959	1	7310	4.4	318	1	11110	461	1	11903 519
						1960	2	8845	3.9	339	2	11095	443		
121440	14	17	10761	4.3	460	1959	11	10510	4.4	459	8	11534	483	5	10658 440
						1960	6	10407	4.4	448	4	11460	468	1	12677 536

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
M. SHORTHORN																
3631	1	3	8530	3.9	333	1955	1	10140	3.7	378	1	10400	376	1	8513	308
						1956	1	8310	4.1	339	1	12910	497	1	8796	319
						1957	1	7140	4.0	263	1	7560	278	1	8829	334
20305	1	1	8380	3.7	311	1955	1	8380	3.7	311	1	8460	322	1	8938	352
26059	1	1	6340	3.6	226	1955	1	6340	3.6	226						
27712	1	1	8650	4.1	354	1960	1	8650	4.1	354	1	10150	361			
28624	4	4	10603	3.8	411	1955	1	10530	4.2	445						
						1958	3	10627	3.7	400	1	8840	408	1	9102	336
28867	2	2	6800	4.0	273	1955	1	7400	4.0	294	1	7910	324	1	6289	235
						1957	1	6200	4.0	251						
31199	5	7	8406	3.9	319	1957	2	9065	3.8	340	2	9280	331	2	5657	210
						1958	4	8670	3.6	310	2	8150	296	2	5897	218
						1959	1	6030	4.9	296						
40197	1	1	4010	3.8	151	1957	1	4010	3.8	151						
46431	5	9	7175	3.8	280	1954	1	7730	4.0	311	1	6280	241	1	5570	216
						1955	2	6050	3.7	223	1	9190	403	1	5995	220
						1956	1	5170	3.8	195						
						1957	1	5830	3.6	213						
						1958	3	8170	4.2	349	1	8900	353	1	7619	284
						1960	1	8190	3.6	298						
62378	1	3	8250	3.9	323	1953	1	9120	3.9	356	1	10770	395	1	8535	316
						1954	1	8690	3.9	343	1	10350	379	1	9461	343
						1955	1	6940	3.9	269	1	9520	356	1	8448	330
69965	2	3	9728	3.9	376	1954	2	10390	3.9	403	2	8330	303	2	5853	226
						1955	1	7940	3.8	303	1	6330	312	1	5799	213
71025	1	1	6170	4.0	247	1959	1	6170	4.0	247	1	7260	277			
72716	4	8	8383	3.9	325	1956	2	7275	4.5	324	2	7590	271	2	5265	223
						1957	3	8723	3.9	345	2	7170	261	2	5657	210
						1958	2	7885	4.2	330	1	6370	293	1	5897	218
						1960	1	7850	3.1	246						
81882	1	1	7950	3.9	311	1959	1	7950	3.9	311						
92492	1	4	7843	3.6	286	1956	1	8720	3.6	317						
						1958	1	7690	3.7	284						
						1959	1	8030	3.4	277						
						1960	1	6930	3.8	265						
100308	3	5	8693	4.2	365	1957	2	8505	4.0	341	2	10180	396	2	7161	289
						1958	1	7420	3.7	276						
						1959	2	8665	4.4	383	2	7930	315			
101321	1	1	7870	4.0	318	1957	1	7870	4.0	318	1	9130	349			
119644	3	4	10447	3.6	382	1956	1	12470	3.6	454	1	13430	509	1	8796	319
						1957	3	9580	3.6	347	3	9957	373	3	8829	334
127671	5	7	9634	3.9	371	1959	5	9222	3.8	353	5	9118	351	1	7663	315
						1960	2	12670	4.0	500	2	10020	378	2	9461	347
167651	1	1	11880	3.8	454	1958	1	11880	3.8	454						
1943617	1	1	6620	4.0	264	1951	1	6620	4.0	264						
2079274	1	2	6370	4.1	265	1953	1	7460	4.7	348	1	6410	266	1	5624	228
						1954	1	5280	3.4	182	1	7670	283	1	6366	237
2213443	4	4	7385	4.0	292	1956	2	7165	4.5	315	2	11860	452	2	8796	319
						1957	2	7605	3.6	269	2	8660	317	2	5657	210
2317822	1	1	10660	4.0	430	1957	1	10660	4.0	430	1	8130	298			
2330714	1	2	7285	3.7	272	1950	1	7850	3.6	285						
						1952	1	6720	3.8	258						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
AYRSHIRE																
57338	1	1	10150	3.5	359	1951	1	10150	3.5	359						
62648	2	8	11309	4.0	446	1952	2	11430	3.8	430	1	11600	417			
						1953	2	11810	4.0	474	1	12550	465			
						1954	1	11290	4.2	472						
						1955	2	10805	4.0	424	1	12740	493			
						1957	1	11090	3.9	437	1	9400	379	1	7467	315
72651	2	2	6485	3.9	252	1958	2	6485	3.9	252	2	10050	319			
72906	4	8	10081	4.0	405	1952	2	10865	4.0	434						
						1953	4	10270	4.0	412						
						1954	1	10750	4.4	477						
						1956	1	6780	3.7	249						
74656	2	5	11058	3.9	429	1953	2	11090	3.9	426	1	12420	466			
						1954	1	12550	3.7	463						
						1955	1	11470	3.6	416	1	13090	517			
						1957	1	10520	3.8	398	1	9590	392	1	7467	315
77328	1	3	10790	4.1	437	1957	1	9920	4.1	407	1	8810	360	1	9167	370
						1958	1	12710	4.0	506	1	11750	474			
						1959	1	9740	4.1	397	1	10460	425	1	11750	484
79374	1	1	12570	4.5	564	1959	1	12570	4.5	564	1	12560	561	1	11848	523
81791	2	4	10177	4.0	389	1953	2	10815	4.0	415						
						1954	1	17490	3.5	621						
						1955	1	8920	3.6	320						
84598	3	8	11504	4.0	456	1955	1	11930	3.9	470	1	12940	489	1	9777	376
						1956	1	12080	3.9	467	1	10120	412	1	11532	450
						1957	1	9810	4.1	398	1	10130	395			
						1958	3	11967	4.0	480	2	11000	452			
						1959	2	10105	3.9	392	2	10500	429	2	11778	474
86779	3	4	9137	4.1	374	1955	1	11720	4.2	490	1	11600	499	1	11510	457
						1956	1	10560	4.2	446	1	11490	510	1	11718	479
						1957	1	8970	4.1	364	1	8440	315	1	9112	351
						1959	1	7300	4.0	291	1	9330	385	1	9265	374
90323	1	3	8650	3.7	314	1957	1	10220	3.5	357	1	11900	450	1	11434	425
						1959	1	7640	3.6	347	1	12960	478	1	13614	495
						1960	1	6090	3.9	238	1	11960	408	1	12895	463
92173	2	2	6955	4.0	274	1956	1	6880	4.1	280	1	7990	320	1	8884	362
						1958	1	7030	3.8	267	1	8470	352	1	9134	368
92422	6	7	11930	4.2	498	1957	1	11240	4.5	502	1	11610	518			
						1959	5	12228	4.1	502	5	10506	439	5	11750	434
						1960	1	11510	4.1	470	1	10300	408	1	11271	479
94562	1	1	7770	4.7	363	1959	1	7770	4.7	363	1	10690	444	1	11750	484
95005	8	8	10829	4.2	455	1959	7	11350	4.2	477	7	10501	430	7	11703	474
						1960	1	7180	4.2	300	1	9430	355	1	10878	434
95368	8	11	7080	4.3	306	1956	2	5980	4.3	261	1	11260	421	2	11750	434
						1957	2	8880	4.3	364	2	12290	431	2	11434	425
						1958	4	6840	4.3	303	4	10330	395	4	11363	431
						1959	3	7547	4.2	312	3	9540	380	3	10577	413
96526	3	7	8787	3.9	345	1957	1	8050	4.3	350	1	7830	299	1	7514	289
						1958	3	8963	3.7	338	3	13920	476	3	13592	494
						1959	2	9825	3.8	372	2	12940	457	2	13614	495
						1960	1	8330	3.6	302	1	11640	399	1	12895	463
99217	1	3	12637	4.0	513	1957	1	13260	4.2	562	1	11360	415	1	11434	425
						1958	1	13940	4.1	565	1	9410	323	1	13592	494
						1959	1	10710	3.6	412	1	12610	461	1	13614	495
102855	1	1	9270	3.8	354	1957	1	9270	3.8	354	1	8960	343	1	7314	289
102959	5	5	9692	4.0	385	1959	5	9692	4.0	385	5	9308	371	5	11864	473
110107	6	6	8318	4.3	349	1959	4	5973	4.3	250	4	9975	403	4	11652	465
						1960	2	13010	4.2	546	2	12660	512	2	12481	505

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GULKNSEY																
182899	1	1	10000	3.7	368	1950	1	10000	3.7	368						
217016	1	1	6220	4.8	296	1951	1	6220	4.8	296						
220140	6	15	7784	4.8	372	1948	2	8895	4.8	426						
						1949	5	8360	4.7	398						
						1950	4	7023	5.1	357						
						1951	3	7060	5.3	371						
						1952	1	8490	5.5	465						
221148	1	5	8244	4.3	354	1949	1	9220	4.1	379						
						1950	1	8440	4.2	355						
						1951	1	8000	4.4	354						
						1952	1	8610	4.4	379						
						1953	1	6950	4.4	304						
223209	2	4	8135	5.2	420	1947	3	9120	5.0	457						
						1949	1	7150	5.4	383						
240902	1	1	7750	4.6	356	1954	1	7750	4.6	356	1	7470	336	1	7586	375
243801	1	3	8460	5.7	483	1948	1	10240	5.8	597						
						1949	1	10340	5.5	570						
						1950	1	4800	5.9	281						
250198	1	1	6080	4.6	278	1951	1	6080	4.6	278						
252524	1	1	7250	5.0	363	1952	1	7250	5.0	363						
254482	1	1	8820	5.5	488	1951	1	8820	5.5	488						
255390	1	2	7615	5.4	407	1947	2	7615	5.4	407	2	7615	407			
261644	1	1	8140	5.9	479	1949	1	8140	5.9	479						
269867	1	1	7550	5.0	376	1947	1	7550	5.0	376						
270309	1	1	9440	4.5	424	1951	1	9440	4.5	424						
272456	7	13	7233	4.9	353	1948	1	7640	4.9	373						
						1949	4	8468	4.7	382						
						1950	3	7637	5.3	388						
						1952	2	6545	4.5	298						
						1953	1	7080	5.2	365						
						1954	1	8100	5.0	408	1	8060	389	1	8502	414
						1955	1	7520	4.9	366	1	7060	372	1	8360	388
273331	9	13	8537	4.6	392	1952	1	9830	4.8	467						
						1953	1	6420	4.6	292	1	9070	398	1	7129	332
						1954	4	7450	4.7	346	4	9185	408	4	8581	390
						1956	1	9040	5.1	460	1	7240	335	1	9134	397
						1957	2	9840	4.5	440	2	10660	463	1	11979	473
						1958	2	9350	4.4	417	2	11765	456	1	10562	451
						1959	2	8525	4.0	336	2	11680	464	2	12546	492
273653	3	4	10155	3.6	363	1954	1	11590	3.7	423	1	10290	407			
						1956	1	11740	3.5	406	1	9580	359	1	10333	397
						1957	2	9095	3.6	322	2	10570	411	2	11750	429
274638	8	13	8568	4.6	388	1950	4	8343	4.6	379						
						1951	2	7546	4.7	351	1	8370	443			
						1952	3	8107	4.4	357	1	8590	408			
						1953	3	8790	4.5	395	1	8900	374	1	9221	423
						1954	1	10380	4.4	458	1	8940	357	1	7031	325
275237	67	150	8149	4.7	381	1947	10	7972	4.7	376						
						1948	15	7940	4.6	379	1	12530	533			
						1949	33	8012	4.6	372	2	13750	559			
						1950	19	7925	4.8	380	3	10030	428			
						1951	17	7528	4.9	367	4	8860	403			
						1952	16	8615	4.7	406	5	10376	468			
						1953	12	9619	4.8	463	5	10236	440			
						1954	11	9469	4.8	452	8	9231	439	7	10019	451
						1955	7	9483	4.7	438	5	9536	421	5	8855	413
						1956	6	9007	4.5	403	4	10783	471	4	9633	410
						1957	1	6920	4.0	275						
						1958	2	7610	4.6	353	2	7710	379	1	8262	421
						1959	1	6906	4.4	307	1	7560	355	1	8371	423
280450	30	53	7959	4.9	386	1952	5	9640	4.6	438	2	10495	493			
						1953	11	7837	4.9	385	7	3549	409	5	9071	412
						1954	15	7977	4.7	388	14	8809	375	11	9184	421
						1955	6	8180	4.9	403	5	8208	391	5	8510	372
						1956	7	7287	5.0	362	7	8120	378	6	7893	306
						1957	3	8550	4.7	405	2	7055	339	2	7456	349
						1958	3	8210	4.7	394	3	10370	464			
						1959	2	7715	4.6	350	2	8360	386	1	7521	352
						1960	1	9020	4.2	375	1	6120	273	1	7488	361
281510	11	27	8869	4.7	407	1953	2	11450	4.5	478	1	9340	454	2	9009	409



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. LB.	AV. LB.	YEARLY HERD RECORDS NO.	MILK LB.	FAT LB.
GORKNEY																
						1954	6	8455	4.7	394	5	8458	376	5	8435	373
						1955	7	8593	4.7	396	7	8660	410	6	9421	420
						1956	5	8714	4.5	396	5	8958	348	2	9525	413
						1957	3	8353	4.7	390	3	8953	364	3	9799	416
						1958	3	10547	4.7	497	3	9193	413	1	9267	456
						1959	1	12150	4.6	563	1	13060	486	1	13712	512
281869	7	18	8091	4.9	398	1947	7	7791	5.2	404						
						1948	5	8870	5.1	452	1	9390	473			
						1949	1	8000	5.7	458						
						1950	3	8720	5.4	362						
						1951	1	7180	4.9	350						
						1953	1	6320	4.3	273				1	8567	407
282117	7	16	7686	4.9	379	1948	1	4790	5.0	240						
						1949	4	9230	5.0	455						
						1950	3	7210	4.9	351						
						1951	2	10165	5.2	531	1	9900	460			
						1952	2	8275	5.1	425	1	8810	412			
						1953	2	7330	5.3	387	1	8910	417			
						1954	2	8150	4.9	405	1	8650	387	1	9450	426
283047	46	100	7372	5.0	367	1948	1	7710	4.9	378						
						1949	5	7750	5.1	396	1	11290	548			
						1950	11	7797	4.9	385	1	6770	375			
						1951	17	7159	5.0	357	4	10155	464			
						1952	22	7515	5.1	380	9	8418	404			
						1953	15	7655	5.0	385	10	8909	423	8	8690	394
						1954	13	7220	4.6	348	12	9212	406	10	8812	407
						1955	7	7407	4.9	359	7	9220	410	6	9129	414
						1956	1	9970	5.2	519	1	10580	570	1	10268	536
						1957	2	9185	5.0	452	2	9915	473	2	10756	534
						1958	5	8636	4.6	397	4	10058	454	1	11053	431
						1960	1	8050	5.0	406	1	8910	442	1	10126	524
283808	1	4	8233	4.7	385	1955	1	9110	5.0	454	1	11350	536	1	10039	471
						1956	1	8530	4.6	381	1	11620	545	1	11173	510
						1957	1	7750	4.6	359	1	8900	431	1	9766	486
						1958	1	7740	4.5	347	1	11560	461			
283950	1	2	9255	4.8	443	1952	1	9150	4.4	406						
						1953	1	9360	5.1	400						
284186	61	157	8301	5.0	413	1949	3	9973	5.6	550	1	8120	383			
						1950	10	8157	5.0	406	2	7725	367			
						1951	16	7726	5.3	413	4	8510	398			
						1952	22	8241	5.1	420	8	8273	399			
						1953	37	8095	5.0	409	22	8112	380	14	8553	398
						1954	26	8487	5.0	424	23	8253	380	21	8329	396
						1955	20	8214	4.6	392	20	6545	392	18	8136	386
						1956	11	8720	5.0	435	11	8555	423	10	9247	443
						1957	4	9343	4.9	456	4	9293	398	2	8758	384
						1958	1	9830	5.1	505	1	9950	447			
						1959	6	9390	4.4	407	5	7388	421	4	9459	420
						1960	1	9440	4.4	417	1	9810	492	1	11554	512
286916	25	50	7506	4.7	350	1949	13	7424	4.6	339	1	8510	427			
						1950	13	8103	4.7	361	1	7490	374			
						1951	7	7413	4.6	337	1	6980	341			
						1952	9	7891	4.7	374	3	7517	419			
						1953	5	7570	4.7	346	3	8613	381	2	7766	376
						1954	3	5447	4.9	271	3	8500	353	2	7625	367
290518	1	1	9780	4.6	450	1950	1	9780	4.6	450						
295425	5	7	7643	4.8	369	1949	2	7980	4.9	388						
						1950	3	7477	4.6	357						
						1951	2	7705	4.8	369						
295840	1	7	8953	4.7	418	1947	2	9755	4.7	458						
						1950	1	10690	4.8	510	1	12420	560			
						1951	1	8920	4.7	418	1	10890	540			
						1952	1	7840	4.6	360	1	8530	431			
						1953	1	8030	4.5	359	1	10550	561	1	9897	488
						1954	1	7680	4.7	364	1	8690	454	1	9919	495
296354	150	340	8227	4.8	394	1948	5	8490	5.0	432						
						1949	20	8314	4.9	407						
						1950	37	8259	4.9	402	6	8663	398			
						1951	63	8397	4.8	401	10	9147	417			
						1952	72	8685	4.8	416	29	9267	423			
						1953	54	8714	4.8	414	31	9545	423	25	9708	434
						1954	39	8068	4.6	387	32	9024	401	25	9014	406
						1955	22	8445	4.7	396	18	9200	418	14	9466	432
						1956	12	8771	4.5	394	9	8157	399	8	9017	442
						1957	10	8465	4.6	386	7	9046	439	3	9069	427
						1958	4	6206	4.4	272	3	7753	382	2	9271	453
						1959	2	11315	4.4	497	1	6800	395	1	9559	429
297875	1	3	10160	5.0	511	1949	1	9680	5.0	483						
						1950	1	9730	5.2	505						
						1951	1	11070	4.9	546						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	FAT LB.
GULBNSLY																
299629	4	5	6569	4.7	307	1949	3	6357	4.6	289						
						1950	1	8390	5.0	421						
						1951	1	6180	4.9	303						
300392	24	43	7786	4.7	364	1953	4	7310	4.9	359	2	6525	417	2	8344	417
						1954	13	8399	4.7	395	12	8652	421	10	8484	406
						1955	10	7818	4.8	372	9	8424	373	6	8814	402
						1956	6	6643	4.6	326	6	8435	371	5	7528	352
						1957	3	7858	4.7	366	4	8078	384	5	7959	370
						1958	3	6381	4.9	312	3	8203	361			
						1959	2	9280	4.3	396	1	6750	307	1	8339	378
301306	4	9	8008	4.9	392	1950	4	7940	4.9	365						
						1951	1	8640	4.6	395						
						1952	1	9240	4.7	434						
						1953	1	10730	4.4	475						
						1956	1	9240	4.4	465						
						1957	1	10690	4.3	460						
302853	12	34	8603	4.9	419	1950	2	7620	4.9	377						
						1951	8	9278	4.9	450	3	8357	392			
						1952	7	8360	4.9	406	2	7980	387			
						1953	6	6950	4.6	426	4	8973	425	3	9465	437
						1954	5	8962	4.6	412	3	8378	394	5	8842	410
						1955	3	9733	4.7	456	3	8417	412	3	8669	412
						1956	2	10665	4.7	497	2	8970	472	2	9243	413
						1957	1	12260	4.2	511	1	9620	469	1	9886	438
306492	14	28	8725	4.8	420	1948	1	11710	4.3	507						
						1949	1	9280	4.6	434						
						1950	2	8645	5.0	426						
						1951	4	8710	4.9	425						
						1952	7	7583	4.6	372	2	8085	394			
						1953	3	6990	5.0	351	4	8960	443	1	11576	513
						1955	2	11000	4.5	493	2	13300	480	2	9761	379
						1956	3	10697	4.8	469	2	11605	485	1	9396	359
						1957	2	7640	4.9	376	2	10360	436	1	9756	376
						1958	1	9860	4.9	482						
307191	51	87	8190	4.9	394	1951	1	10440	4.5	469						
						1952	7	6114	5.0	401	3	9293	425			
						1953	12	8153	4.8	369	6	8977	369	4	9115	428
						1954	16	8412	4.9	410	13	9507	421	11	9617	436
						1955	13	8255	5.0	410	13	9022	420	10	9494	449
						1956	10	8060	4.8	367	6	8910	398	6	9122	443
						1957	10	7555	4.8	356	9	8911	396	6	8260	370
						1958	9	9913	4.6	447	8	11210	455	1	9091	434
						1959	9	7719	4.8	364	8	9734	429	7	10106	452
309498	5	11	7538	4.3	323	1952	1	9720	4.5	438	1	8510	402			
						1953	5	7610	4.3	337	2	7670	362	2	9107	425
						1954	2	6220	4.7	288	2	7625	368	2	8116	374
						1955	1	7150	4.5	319	1	7860	334	1	7783	376
						1956	2	6545	4.8	316	2	8565	406	1	7968	376
310166	188	371	7477	5.1	376	1952	8	8453	5.2	433	4	9135	406			
						1953	30	7641	5.2	407	18	9074	405	13	9621	451
						1954	52	7618	5.2	394	44	8688	402	36	8725	414
						1955	46	7170	5.2	372	44	8754	396	39	8612	398
						1956	52	7082	5.1	363	50	8275	380	36	8905	413
						1957	34	6836	5.0	341	48	8709	393	45	8664	394
						1958	64	8037	4.9	395	59	9302	408	9	9234	419
						1959	51	8419	5.1	426	49	9011	422	46	9649	448
						1960	14	8781	5.0	441	13	9018	426	14	9464	458
311427	3	3	6653	4.9	321	1948	3	6653	4.9	321						
311574	3	3	9557	4.7	448	1954	3	9557	4.7	448	3	10867	533	1	9952	495
311775	2	5	6152	4.9	293	1954	1	10440	4.6	475	1	12420	464	1	11936	463
						1955	1	9720	4.4	431	1	11800	455	1	12622	475
						1956	1	7930	4.8	382	1	11130	430			
						1957	1	6440	4.3	278						
						1960	1	3670	5.3	194	1	5940	259	1	6089	302
311797	8	16	7395	5.1	376	1947	3	7627	5.2	396						
						1948	2	7290	5.3	385						
						1949	5	7408	5.1	375						
						1950	1	7240	5.2	373						
						1951	1	9110	4.8	440						
						1952	3	8217	5.2	424						
						1953	1	7640	4.9	373						
312217	21	48	7639	5.1	384	1950	5	8462	5.0	418	1	10740	434			
						1951	13	7287	5.1	367	4	9393	439			
						1952	9	7609	5.1	386	5	8416	393			
						1953	8	8023	5.0	398	6	9167	409	5	8371	391
						1954	7	8106	5.0	402	7	9397	404	5	8973	387
						1955	4	9490	4.9	461	4	8248	379	2	9239	409
						1956	1	9540	5.3	509	1	9580	480			
						1959	1	8840	5.2	458	1	9260	464			
314163	1	3	10810	4.9	532	1951	1	10150	5.0	503	1	11370	558			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1957	1	10320	5.1	527	1	10380	501	1	10846	511
						1959	1	11960	4.7	565	1	11450	570	1	11194	566
315130	3	4	6873	4.5	313	1953	1	6620	4.5	295	1	7720	386	1	7565	373
						1954	2	5835	4.6	268	1	6300	296	1	9232	458
						1956	1	8180	4.5	372						
315591	8	16	8309	4.7	387	1949	1	8380	4.3	362						
						1950	4	9273	4.8	415	2	8895	387			
						1951	4	8270	4.8	397	2	9150	423			
						1952	3	9073	4.7	424	1	9260	452			
						1953	2	7050	4.8	356						
						1954	2	7485	4.5	339	2	8675	389	1	9450	426
316875	11	26	7031	5.2	366	1950	2	7850	5.1	399						
						1951	6	6592	5.2	341	1	9070	407			
						1952	8	7315	5.4	395	3	8670	394			
						1953	4	7210	5.4	383	2	8150	395	2	9009	401
						1954	5	7147	5.7	404	2	8925	399	2	9282	426
						1957	1	6810	5.6	381	1	9060	427	1	9766	486
						1958	2	8860	4.3	382	1	8140	406			
317646	67	161	8235	4.8	391	1949	3	6873	5.1	356						
						1950	11	8375	4.7	390	5	8926	428			
						1951	23	8658	4.7	403	11	7870	382			
						1952	31	8915	4.8	423	15	8622	423			
						1953	35	8108	4.9	393	26	8604	410	19	8789	413
						1954	30	7944	4.8	377	29	8249	381	23	8375	404
						1955	14	8381	4.7	393	13	8828	418	10	8602	421
						1956	10	7357	4.6	341	9	8403	391	5	8670	435
						1957	3	8077	4.9	397	3	8530	414	2	8519	418
						1958	1	10490	4.0	421	1	9220	468			
318429	1	3	8667	5.5	469	1951	1	7310	6.0	438	1	8170	432			
						1953	1	8430	5.3	450	1	9980	460			
						1954	1	10260	5.1	519	1	9710	435	1	9418	435
319210	1	2	10865	4.5	485	1954	1	11220	4.5	500	1	9740	471	1	10083	451
						1955	1	10510	4.5	470	1	9780	449	1	10072	474
319654	2	3	9650	4.7	449	1953	1	7720	4.9	376	1	7670	349	1	8633	386
						1954	1	8500	5.3	452	1	7470	312	1	8633	386
						1955	1	11190	4.3	483	1	8700	436	1	9952	464
321462	6	8	7289	5.3	384	1952	1	7080	5.0	355						
						1953	1	6730	5.0	334						
						1954	1	7130	5.1	360	1	7600	370	1	8862	408
						1955	1	10080	5.7	576	1	11350	530	1	9320	450
						1956	2	8385	5.5	451	2	10060	469	2	9211	450
						1957	1	4420	5.1	224	1	9980	426			
						1960	1	9060	5.2	474	1	10240	505	1	9505	469
321668	2	2	9910	4.6	455	1954	2	9910	4.6	455	2	12400	463	2	11936	463
321825	3	4	8115	4.6	375	1954	1	9670	4.7	451	1	8820	410			
						1955	1	7140	4.9	351	1	7510	351	1	6682	327
						1957	1	7680	4.2	320	1	7830	294	1	9581	367
						1958	1	7390	4.4	327	1	9330	398			
323661	1	5	8000	4.6	365	1954	1	7440	4.6	342	1	7900	405	1	9548	456
						1955	1	8510	4.6	395	1	9000	440	1	8796	452
						1956	1	6860	4.7	324	1	6610	307	1	8960	440
						1957	1	9380	4.6	447	1	8900	416	1	9112	422
						1959	1	7810	4.1	317	1	8430	393	1	10257	495
324066	1	1	9090	4.0	360	1953	1	9090	4.0	360						
326192	1	1	7670	5.7	438	1954	1	7670	5.7	438						
327238	4	9	10129	5.0	493	1952	1	11170	4.8	533						
						1953	2	9215	5.0	447						
						1958	4	13735	4.6	637	1	10040	488			
						1959	1	8720	5.1	449	1	8360	423	1	8437	417
						1960	1	11920	4.1	486	1	8770	414	1	10224	502
332960	2	6	7970	4.6	358	1947	2	9465	4.3	408						
						1948	1	6890	4.6	314						
						1950	2	6180	4.8	296						
						1951	1	9640	4.4	426						
334545	5	11	8770	5.0	440	1954	5	10007	5.0	504	5	9913	482	1	10257	488
						1955	1	11070	5.1	564	1	10240	461	1	9756	464
						1956	2	9200	4.6	423	2	9350	437	2	10562	502
						1957	3	7723	5.0	387	5	9730	438	2	9805	462
						1959	2	8375	4.9	409	2	6865	327	1	8317	401
335786	1	1	6860	5.3	362	1954	1	6860	5.3	362	1	8510	356	1	8633	386
336111	13	32	7191	5.3	374	1950	3	7333	5.2	378						
						1951	8	6895	5.3	364	1	8540	417			
						1952	8	7550	5.4	407	2	11335	544			
						1953	4	6023	5.8	349				1	7227	351
						1954	4	6415	5.3	330	2	7895	394	2	8797	450

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LO.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GULRNSEY																
						1955	2	6360	5.6	352	1	6500	342		1	7979 404
						1956	1	6080	5.0	305						
						1957	1	7640	5.2	397						
						1958	1	6530	4.9	322						
337666	1	2	7920	5.5	435	1953	1	7510	5.4	404	1	11790	417		1	12644 482
						1954	1	8330	5.6	465	1	10890	393		1	11837 419
338467	1	3	11007	4.7	515	1955	1	10810	4.9	530						
						1956	1	9850	4.5	448						
						1958	1	12360	4.6	568						
339378	3	10	8742	4.7	408	1953	1	8700	4.1	359	1	8600	445			
						1954	1	6940	4.3	301	1	9590	445			
						1955	2	9390	4.5	425	2	8650	438		2	9538 457
						1956	1	9240	4.8	443	1	9110	459		1	9897 482
						1957	1	9150	4.6	418	1	8510	390		1	9375 475
						1958	2	8670	4.9	428	2	10315	431			
						1959	2	8280	4.9	405	2	9440	394		2	9909 441
341233	1	2	13980	5.8	699	1958	2	13980	5.6	699	1	15750	773			
341503	3	4	10043	5.2	562	1958	2	13840	6.2	923	1	15760	744			
						1959	1	7080	5.1	359	1	8390	384		1	8393 372
						1960	1	9210	4.4	405	1	8390	384		1	9014 402
343131	1	2	5095	5.6	275	1959	2	5095	5.6	275	2	8985	349		2	9570 399
346065	12	23	8932	4.8	425	1953	1	7490	5.0	378						
						1954	4	9255	5.3	484	4	9863	511		3	10428 511
						1955	2	10395	4.7	494	2	8860	469		2	8157 395
						1956	3	8363	5.1	421	3	9553	466		3	10348 525
						1957	5	10252	4.8	483	3	10530	502		4	10544 464
						1958	3	8453	4.5	381	3	10000	422		1	9134 368
						1959	4	9615	4.7	451	4	9235	414		4	9938 451
						1960	1	7520	4.9	368	1	9830	495		1	9570 475
346295	4	6	8839	4.9	427	1954	1	10590	4.3	451	1	8440	356		1	9058 412
						1955	2	8495	4.5	381	2	10135	432		2	10061 448
						1957	1	8220	5.4	444	1	9770	414			
						1958	1	7360	5.6	410	1	11680	483			
						1959	1	8480	5.3	450	1	8570	404		1	9734 452
346779	1	1	6830	4.4	299	1955	1	6830	4.4	299						
348783	1	1	5620	4.8	269	1958	1	5620	4.8	269	1	16160	796			
349179	34	77	8344	4.8	400	1952	2	8890	5.5	489						
						1953	3	8010	5.2	411	3	7837	363		1	7172 347
						1954	17	8141	4.9	396	16	8855	399		12	8682 396
						1955	11	8256	4.7	368	10	8691	399		6	8061 384
						1956	11	7640	4.7	361	9	8578	373		5	8694 401
						1957	9	8158	4.9	399	7	8663	391		6	8502 385
						1958	12	8366	4.8	400	11	9638	417		5	10083 456
						1959	10	9117	4.8	433	9	9688	427		8	10040 440
						1960	2	10470	4.6	482	2	9940	430		2	10508 450
349272	7	15	8573	4.7	399	1954	3	10247	4.7	481	3	9993	475			
						1955	4	9543	5.0	466	4	9505	483		4	9538 457
						1956	4	9725	4.7	452	4	10215	469		3	10697 475
						1957	3	7277	4.4	323	3	9590	436		2	9123 436
						1958	1	9130	4.5	409	1	7600	371			
350867	1	1	6440	5.6	361	1953	1	6440	5.6	361						
352461	17	24	7750	4.6	359	1953	1	9900	4.6	455	1	9830	462		1	8589 422
						1954	6	8343	4.7	393	5	8948	430		3	8829 424
						1955	4	6723	4.6	309	3	0133	365		4	7669 357
						1956	3	5543	4.3	235	3	7457	341		3	6918 308
						1957	3	8103	4.6	367	3	8613	356		1	8829 372
						1958	3	8687	4.6	404	3	9330	466			
						1959	3	7660	4.5	342	3	11537	479		2	11538 450
						1960	1	7580	5.2	392	1	6990	310		1	7488 361
353834	1	3	7473	4.9	368	1954	1	7680	5.1	390	1	7850	396		1	9548 456
						1955	1	7450	4.9	363	1	7750	376		1	8796 452
						1956	1	7290	4.8	352	1	6840	323		1	8960 440
354073	3	8	7867	4.8	377	1957	2	7410	4.5	334	2	9135	384		1	9211 384
						1958	2	8350	4.9	412	2	9670	387			
						1959	2	8480	5.1	432	2	9780	421		2	10399 445
						1960	2	8195	5.1	414	2	12060	495		2	10524 455
354224	10	20	8790	4.7	415	1953	3	9450	4.6	428	3	9823	489		2	9439 401
						1954	3	7107	4.6	325	3	9703	476		3	9534 475
						1955	5	8606	5.2	446	5	10166	486		5	9147 449
						1956	3	11293	4.6	516	3	9720	491		3	9658 477
						1957	4	9675	4.4	430	4	9800	455		4	9734 443
						1958	2	9155	4.6	423	2	11315	420			
354465	28	56	7976	4.9	390	1951	3	8300	4.8	399						
						1952	12	8071	4.9	397	5	10210	435			
						1953	10	7572	4.7	349	4	9203	411		4	8608 402
						1954	9	8157	4.9	401	6	8580	395		6	8235 394
						1955	7	8283	4.9	408	6	10180	430		6	9554 430
						1956	6	8940	4.8	428	6	10122	471		3	9203 461
						1957	4	9190	5.3	482	3	10370	440		3	9748 444
						1958	1	6350	4.8	308	1	8360	355		1	7401 316

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GUERNSEY																
357463	10	21	8675	4.7	405	1959	2	9570	4.8	461	2	9365	419	2	9860	443
						1960	2	9255	4.9	446	2	9990	436	2	9249	424
						1955	1	9490	5.0	472				1	8262	399
						1956	4	8958	4.6	415	4	9960	430	1	10268	492
						1957	4	8408	4.5	377	3	8717	386	3	9210	410
						1958	8	8253	4.7	386	7	9561	448	2	9091	434
357515	1	1	8390	4.5	377	1959	3	9153	4.7	452	3	9020	432	3	10137	501
						1960	1	5970	4.4	265	1	7600	346	1	8001	358
						1960	1	8590	4.5	377	1	9070	443	1	8807	428
						1958	1	7120	4.9	351	1	6540	310			
						1955	3	8437	5.1	429	3	9527	403	2	7336	348
						1956	8	5963	4.8	299	8	8738	378	5	9782	441
358092	1	1	7120	4.9	351	1957	6	5917	4.9	294	5	9126	388	5	9219	399
						1958	15	7107	5.0	364	14	8672	381	2	8840	387
						1959	18	7413	4.9	369	18	8774	393	16	10137	446
						1960	8	6730	4.6	323	6	9683	420	7	9928	436
						1955	1	8520	4.8	407	1	7030	346	1	7804	367
						1956	1	4350	5.0	218	1	6570	306	1	7521	374
358152	43	58	6672	4.9	333	1958	2	9620	4.6	445	1	7860	391	1	9287	456
						1959	1	9200	4.7	428	1	7590	353	1	8720	416
						1955	1	6480	4.6	296						
						1952	5	8074	5.1	405	3	8950	420			
						1953	9	7093	4.7	331	4	8520	400	4	8965	410
						1954	11	7955	4.6	364	10	9095	423	8	8705	410
360265	2	5	7958	4.8	376	1955	7	6824	4.6	311	6	7917	365	6	8398	385
						1956	9	8003	4.7	377	9	8570	387	7	9351	428
						1957	8	8010	4.6	365	8	8160	363	8	8438	369
						1958	10	8731	4.6	401	9	8643	394			
						1959	10	8550	4.7	398	9	8784	403	8	8926	417
						1960	1	8430	5.2	437	1	6910	350	1	8764	437
360631	40	71	7748	4.6	358	1954	1	11120	5.1	566	1	8440	398	1	9385	440
						1955	2	8160	4.6	372	2	8170	406	2	8088	387
						1956	10	7151	5.0	353	10	8266	371	6	8491	391
						1957	9	7856	4.9	384	9	8291	367	9	8725	395
						1958	15	8838	5.2	460	12	9013	402	2	9069	422
						1959	15	8738	5.0	442	14	9586	426	15	10373	467
361451	26	55	8024	5.0	402	1960	3	8370	4.9	419	3	8283	393	3	9850	461
						1955	1	7530	4.1	307	1	7770	370	1	7804	367
						1955	1	5850	3.8	224						
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
361452	1	1	7530	4.1	307	1957	25	8540	4.8	410	22	9647	445	22	9562	441
						1958	39	8918	4.9	436	36	9915	435	5	9956	451
						1959	24	8861	4.8	419	24	9836	436	24	10240	456
						1960	8	8139	4.6	375	8	9753	434	8	10204	460
						1956	1	9140	4.4	405	1	11040	454	1	12459	477
						1957	2	9000	4.6	420	2	12035	452	1	11674	456
361476	1	1	5850	3.8	224	1958	2	10005	5.4	533	2	9600	435			
						1959	2	8805	5.2	457	2	10255	450	2	10383	461
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
						1957	25	8540	4.8	410	22	9647	445	22	9562	441
363045	70	144	8569	4.9	419	1958	39	8918	4.9	436	36	9915	435	5	9956	451
						1959	24	8861	4.8	419	24	9836	436	24	10240	456
						1960	8	8139	4.6	375	8	9753	434	8	10204	460
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
364307	3	7	9079	5.0	450	1957	25	8540	4.8	410	22	9647	445	22	9562	441
						1958	39	8918	4.9	436	36	9915	435	5	9956	451
						1959	24	8861	4.8	419	24	9836	436	24	10240	456
						1960	8	8139	4.6	375	8	9753	434	8	10204	460
						1956	1	9140	4.4	405	1	11040	454	1	12459	477
						1957	2	9000	4.6	420	2	12035	452	1	11674	456
364803	2	3	8020	4.3	339	1958	2	10005	5.4	533	2	9600	435			
						1959	2	8805	5.2	457	2	10255	450	2	10383	461
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
						1957	25	8540	4.8	410	22	9647	445	22	9562	441
364846	30	53	7490	4.7	353	1958	39	8918	4.9	436	36	9915	435	5	9956	451
						1959	24	8861	4.8	419	24	9836	436	24	10240	456
						1960	8	8139	4.6	375	8	9753	434	8	10204	460
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
364883	1	1	8680	5.2	447	1957	2	9000	4.6	420	2	12035	452	1	11674	456
						1958	2	10005	5.4	533	2	9600	435			
						1959	2	8805	5.2	457	2	10255	450	2	10383	461
						1954	13	9308	4.8	444	11	9064	436	7	8839	415
						1955	21	9009	4.9	446	19	8737	424	17	9025	435
						1956	14	9057	4.9	440	14	8831	417	12	9511	452
365001	8	8	6978	5.1	346	1955	6	7568	4.8	370	6	9195	402	5	8860	393
						1956	4	7418	4.9	361	4	9463	402	2	9074	373
						1957	2	6515	5.1	328	2	12565	497	1	8753	407
						1958	2	5390	4.5	240	2	7210	341	2	8083	374
						1959	1	7610	4.3	328	1	8130	365	1	7794	386
						1960										
365847	3	6	7078	5.0	353	1955	1	6320	5.1	325	1	7720	365	1	9058	399
						1956	1	6150	4.7	292						
						1957	1	6180	4.6	281	1	8270	389			
						1958	2	8940	5.2	461	1	7900	372	1	9287	456
						1959	1	8370	5.0	420	1	7230	339	1	8720	416
						1960										
366145	1	2	10835	5.0	544	1955	1	11500	5.1	589						
						1957	1	10170	4.9	499						
						1953	1	9440	4.8	451	1	7580	365	1	7652	354
						1954	6	10232	5.1	521	6	9663	481	6	9162	454
						1955	3	8817	5.3	462	3	9840	492	3	9537	477
						1956	1	6320	5.1	325	1	7720	365	1	9058	399
366648	10	27	9198	5.0	463	1957	1	6180	4.6	281	1	8270	389			
						1958	2	8940	5.2	461	1	7900	372	1	9287	456
						1959	1	8370	5.0	420	1	7230	339	1	8720	416
						1955	1	6320	5.1	325	1	7720	365	1	9058	399
						1956	1	6150	4.7	292						
						1957	1	6180	4.6	281	1	8270	389			



TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.						
GUERNSEY																						
367366	51	89	7549	5.0	370	1956	4	8430	5.1	430	3	12260	616	4	9535	449						
						1957	2	8605	4.9	424	1	14260	738	1	10682	555						
						1958	3	9073	4.9	442	3	9770	486									
						1959	6	10136	4.9	508	4	10690	528	4	10698	540						
						1960	2	10385	5.1	535	2	11115	562	2	10726	546						
						1952	2	9110	4.8	422	2	8040	385									
						1953	10	7636	5.0	373	7	8564	407	6	8734	394						
						1954	15	7194	5.1	363	13	8345	402	12	8692	402						
						1955	9	7589	5.1	379	9	8722	408	9	8444	398						
						1956	12	7069	5.1	359	10	8596	393	7	8630	408						
367978	2	2	10225	4.6	466	1954	1	11060	4.6	506	1	9410	397	1	9341	428						
						1956	1	9390	4.5	426	1	9660	413	1	10682	435						
						368868	16	27	6643	4.9	325	1951	4	7085	4.8	337						
												1952	8	7331	5.1	372	3	9873	463			
												1953	8	6750	4.7	318	4	6673	313	2	9467	438
												1954	4	5850	5.2	309	3	7567	361	3	8164	400
												1955	1	6000	4.5	269	1	7200	310	1	6257	289
												1956	1	8280	4.5	373	1	7350	334	1	6300	267
												1957	1	6700	4.8	318	1	6080	312	1	6932	306
												370483	6	11	7770	5.0	385	1957	2	9375	4.5	424
1958	5	7856	4.9	384	5	10222	430	1	12644	459												
1959	3	7823	5.0	387	3	11143	437	3	11645	453												
1960	1	8200	4.9	400	1	10660	514	1	10682	480												
371883	2	3	6998	4.3	299	1958	2	7530	4.3	322	2	11005	463	2	10562	451						
						1959	1	7310	4.4	322	1	10170	373	1	12099	499						
372055	7	15	8450	4.9	409	1953	1	9070	4.5	412	1	9350	441									
						1954	3	8060	5.0	405	3	9200	435	2	10170	464						
						1955	4	8480	4.9	417	4	7806	402	4	8570	403						
						1956	2	8400	5.1	421	2	7820	361	2	9707	452						
						1957	2	9615	5.1	486	2	8525	418	1	6714	354						
						1958	2	9780	4.9	482	2	10165	428									
						1959	1	9210	4.6	420	1	12850	493	1	11674	465						
						372372	1	1	5560	5.4	303	1958	1	5560	5.4	303	1	8790	416			
372978	7	12	7019	4.9	346							1953	1	9010	4.6	415	1	8280	380	1	7837	341
						1954	3	6147	5.1	320	3	7540	375	2	8519	397						
						1955	2	7860	4.7	368	2	8955	424	2	9069	419						
						1956	1	7910	5.0	399	1	7930	338									
						1957	1	7800	4.6	359	1	8670	398	1	9169	411						
						1958	3	6280	4.7	295	2	8965	392									
						1959	1	6920	4.7	421	1	10010	443	1	10628	448						
						373650	25	48	8008	4.8	386	1951	1	9020	4.0	362	1	8600	414			
1952	11	8225	4.9	393	6							9373	419									
1953	15	7617	4.8	367	10							8242	374	8	9100	421						
1954	10	7295	4.8	343	9							8230	377	8	8427	394						
1955	3	6863	4.6	317	5							7920	387	2	7641	374						
1956	1	8570	4.9	418	1							8460	407	1	9799	484						
1957	2	7700	4.6	354	2							8140	390	2	7913	387						
1958	2	8860	5.5	484	1							8370	345									
1959	3	13580	5.0	682	2							10660	502	2	10911	507						
375476	3	10	8592	4.9	418							1952	1	11110	4.8	537	1	11590	617			
						1953	1	11110	4.9	543	1	10740	554	1	9091	479						
						1954	1	7280	4.7	344	1	8790	407	1	8666	427						
						1955	2	9955	4.9	479	1	8760	413	2	9875	493						
						1956	2	8715	5.0	437	2	11665	612	2	9990	506						
						1957	2	8570	5.0	423	2	11230	578	2	10252	522						
						1958	1	9710	4.7	459	1	10620	553									
						378211	2	4	8967	5.6	502	1955	1	8810	5.3	467	1	9950	445	1	8535	402
1957	1	8510	5.9	505	1							10510	471	1	10856	496						
1958	1	9360	6.0	559	1							9210	470									
1959	1	9500	5.6	550	1							10050	497	1	11423	538						
378763	35	53	8647	4.6	396	1955	1	6300	4.1	257	1	8770	336									
						1956	3	9350	4.7	441	3	8940	373	1	9657	378						
						1957	8	9151	4.6	424	8	8974	414	7	9139	426						
						1958	18	8686	4.6	395	18	9422	417	2	9113	402						
						1959	19	9268	4.6	434	19	9269	433	15	9946	457						
						1960	4	9538	4.9	464	4	10295	516	4	10224	525						
379025	1	2	6535	5.4	350	1951	1	5980	5.7	339												
						1952	1	7090	5.1	360												
379201	2	2	7530	5.0	362	1955	1	9850	4.5	445	1	8770	454	1	9320	450						
						1956	1	5210	5.4	279	1	6210	310									
379387	4	5	9926	4.8	478	1953	1	8830	4.4	388	1	11160	438	1	10126	457						
						1954	3	10353	4.9	507	3	13150	531									
						1956	1	10110	5.0	510	1	14130	535	1	13789	529						
380063	4	6	9551	5.0	480	1953	2	9745	5.2	506	1	9080	438	1	9374	452						
						1954	2	8890	4.7	414	2	10455	502	2	10208	491						
						1956	1	10800	5.3	569	1	9820	393									

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	HERD AVERAGE MILK LB.	HERD AVERAGE FAT LB.						
GUERNSEY																						
380662	4	5	8881	4.6	403	1957	1	8270	5.7	474	1	11040	464		1	11761	482					
						1957	1	11490	4.3	493	1	9540	427	1	9352	449						
						1958	2	7205	4.7	335	2	9840	408									
						1959	1	9610	4.7	455	1	6310	296	1	9559	429						
						1960	1	9640	4.6	439	1	10370	506	1	10682	480						
381357	16	27	7417	4.6	342	1952	2	6545	4.5	291												
						1953	4	8100	4.6	370	1	8160	371	1	8448	402						
						1954	7	7980	4.6	364	4	7620	364	4	7826	373						
						1955	4	7540	5.1	385	4	7478	352	3	8219	376						
						1956	1	4570	4.8	221	1	8200	404	1	9647	483						
						1957	5	7066	4.3	303	5	9658	407	4	8031	357						
						1958	2	7150	4.5	310	2	8610	398	1	10322	488						
						1959	1	9400	4.5	406	1	9760	450									
						1960	1	5640	4.7	263	1	9900	473	1	9766	463						
						385569	2	5	6180	5.4	327	1956	1	6370	5.5	353	1	6100	303			
												1957	1	5020	5.6	281	1	6910	311	1	7652	382
1958	1	8240	5.5	434	1							8190	386									
1959	2	7045	5.1	353	1							8500	409	2	8840	406						
1958	1	11420	4.1	472	1							11270	444	1	10562	451						
386975	3	4	9152	5.0	452	1959	3	8877	5.0	439	3	9207	395	2	10917	476						
						1957	1	9200	4.5	417	1	7580	378									
391684	2	2	8400	4.4	373	1959	1	7600	4.5	328	1	8340	359	1	8393	372						
391968	2	2	8300	5.0	415	1957	2	8300	5.0	415	2	8740	391	2	9112	427						
392657	1	1	10740	4.4	477	1959	1	10740	4.4	477	1	9020	417	1	9156	429						
394072	1	1	7960	4.3	340	1959	1	7960	4.3	340	1	8860	410	1	10355	446						
394615	2	6	9417	4.6	430	1956	1	9320	4.5	422	1	9520	384									
						1957	1	9120	4.8	437	1	9080	371	1	10682	438						
						1958	2	9465	4.9	456	2	10095	414									
						1959	2	8995	4.7	413	2	10645	448	2	10644	445						
						1953	1	2960	5.6	167												
396068	2	5	7197	5.5	392	1954	1	11190	5.6	628	1	11840	648	1	12001	586						
						1955	1	11010	5.3	578	1	11980	551	1	10976	549						
						1957	1	11520	5.4	617	1	12760	598	1	11412	584						
						1958	1	12010	5.3	640	1	10060	417									
						1953	1	4750	5.2	249	1	8530	434	1	9679	476						
396995	1	2	5190	5.4	280	1954	1	5630	5.5	310	1	8260	412	1	9548	456						
						1957	1	8030	4.5	359	1	12630	474									
397073	1	2	8270	4.6	380	1958	1	8550	4.7	400	1	15010	545									
						1957	1	11300	4.5	311	1	12670	499									
397627	1	1	11300	4.5	311	1958	1	11300	4.5	311	1	12670	499									
400062	2	2	7520	4.5	332	1958	2	7520	4.5	332	2	9790	406	1	10562	451						
400613	1	1	8370	4.2	350	1958	1	8370	4.2	350												
404005	1	1	8350	5.1	427	1960	1	8350	5.1	427	1	7980	397	1	9211	464						
404262	21	58	7896	4.9	390	1951	4	7685	4.8	362	1	8220	394									
						1952	10	8035	5.0	399	6	8183	394									
						1953	11	8101	4.9	397	8	8693	404	9	8535	396						
						1954	12	8181	4.9	405	10	8156	375	10	7951	372						
						1955	8	8916	5.0	436	8	8994	397	8	9128	411						
						1956	4	8795	4.8	427	4	9105	418	2	9946	486						
						1957	4	9600	4.7	444	4	10008	399	4	9717	422						
						1958	3	10210	5.0	507	3	11097	471									
						1959	2	11200	5.0	543	2	10500	463	2	12241	522						
						1953	4	7633	4.9	375	3	8193	417	3	8764	444						
						1954	12	8280	5.1	418	12	8351	417	12	8572	434						
405828	16	26	7825	5.0	388	1955	6	7948	5.0	395	5	7888	383	6	8410	406						
						1956	2	5345	4.6	249	2	6675	323	2	7113	355						
						1958	1	9300	4.5	419	1	10870	439	1	9134	368						
						1959	1	8670	4.7	409	1	9980	393	1	8851	371						
						1951	5	7486	5.0	373												
						1952	6	8087	4.7	371	1	7830	377									
						1953	10	6955	4.7	323	4	8598	404	4	8630	415						
406551	31	62	7435	4.9	363	1954	7	7287	5.0	367	5	7834	376	3	8132	399						
						1955	8	7995	5.0	402	6	8373	408	6	8598	415						
						1956	9	7456	5.0	372	9	9123	425	8	9174	438						
						1957	7	7896	5.1	400	6	9200	444	6	9074	444						
						1958	7	10221	4.8	491	4	10248	459									
						1959	3	9093	4.8	435	3	8263	397	3	9054	427						
						1953	1	9080	4.9	442												
						1954	1	8700	4.7	405												
						1955	2	8230	4.9	397	2	8895	397	1	6845	322						
407569	1	2	8890	4.8	424	1956	1	8310	4.6	379	1	6850	345	1	8840	404						
408115	2	3	8105	4.9	392	1955	2	8230	4.9	397	2	8895	397	1	6845	322						
1956	1	8310	4.6	379	1	6850	345	1	8840	404												

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
GUERNSEY																	
409032	36	81	9331	4.8	446	1952	1	11480	5.1	590							
						1953	8	9956	4.6	462		5	9428	475	2	9205	450
						1954	10	10497	5.0	516		5	9202	449	6	9371	474
						1955	14	9085	4.8	437		12	9559	464	13	8383	413
						1956	16	9524	4.8	457		13	9676	447	12	9916	460
						1957	7	9537	4.9	465		4	9310	434	5	9514	460
						1958	13	9793	5.0	488		9	9879	448	1	10322	488
						1959	9	9703	4.8	458		9	9580	459	8	10352	498
						1960	3	9173	5.0	451		3	9727	463	3	10101	483
409112	6	8	5753	4.4	251	1956	1	2710	4.1	112		1	9490	414			
						1957	2	7115	4.5	318		2	8300	364			
						1958	4	6120	4.6	273		3	9953	395			
						1959	1	8010	4.1	329		1	6530	313			
409846	1	3	8207	5.2	427	1957	1	9010	5.0	454		1	10870	488	1	10856	
						1958	1	7780	5.4	419		1	9440	490			
						1959	1	7830	5.2	407		1	10220	511	1	11423	
410890	4	9	10260	4.7	481	1955	2	9600	4.8	457		2	9385	449	2	8540	
						1956	1	9570	5.2	478		1	10250	510	1	8785	391
						1958	1	9470	5.1	481							
						1959	4	13190	4.3	571		1	9580	498	1	10758	528
						1960	1	12260	4.0	486		1	8200	450	1	10693	544
411894	13	18	7705	4.9	386	1957	2	8785	4.9	429		2	10880	437	2	10731	
						1958	4	8090	4.9	391		4	8713	407			
						1959	9	8079	5.1	407		9	9631	434	8	9653	445
						1960	3	7317	4.3	338		3	9177	426	3	9708	441
411967	3	4	8187	4.8	394	1954	1	6690	4.6	309							
						1955	2	8350	4.9	401		2	10115	521	1	8622	379
						1956	1	9030	5.0	450							
413436	2	5	8641	5.2	444	1952	1	8410	5.2	433		1	8240	420			
						1953	2	8980	5.2	461		2	10570	538	2	10415	499
						1955	1	8760	5.3	467		1	8000	329	1	11271	451
						1956	1	8230	4.9	406					1	11827	464
415426	6	7	6783	5.2	345	1952	1	7940	4.6	364							
						1956	1	5050	6.7	339		1	7050	371	1	8382	416
						1958	3	5543	5.3	287		3	7663	338			
						1959	2	8440	5.1	421		2	9165	394	2	8982	386
416675	4	7	8404	5.0	417	1957	1	6400	4.8	306		1	9910	375			
						1958	2	8375	5.2	437		2	10055	425	1	10562	451
						1959	3	8837	5.0	437		3	9500	436	1	10562	426
						1960	1	7950	4.8	382		1	6550	331	1	9211	464
416942	5	7	7173	4.8	345	1954	2	7850	4.7	366		2	7405	356	2	8388	
						1957	2	6740	4.8	317		2	9005	432	2	8268	396
						1958	1	8720	4.7	410		1	9560	455			
						1959	2	8225	4.9	405		2	7815	386	1	8611	412
417744	13	23	8040	4.9	389	1953	1	5840	5.0	294							
						1954	6	7762	4.8	369		5	8766	406	4	8984	414
						1955	4	9388	4.8	449		4	11073	435	4	10461	427
						1956	2	8885	4.9	423		2	8560	406	1	10311	480
						1957	4	8293	5.3	437		3	10050	485	3	8640	425
						1958	3	8060	4.5	363		3	10250	470	2	9287	436
						1959	3	8280	4.7	390		3	10037	460	2	10677	474
419988	2	3	9423	4.8	453	1958	1	11230	4.9	547		1	9300	427	1	10322	
						1959	1	10220	5.4	549		1	8870	419			
						1960	1	8120	4.4	357		1	12440	507	1	10900	480
421539	1	1	8490	4.7	396	1959	1	8490	4.7	396		1	6550	344			
422538	1	2	9890	4.9	481	1957	1	9710	4.8	464		1	7130	288	1	9211	
						1958	1	10070	4.9	498		1	9710	429			
424536	2	2	9965	5.0	491	1959	2	9965	5.0	491		2	10330	455	1	11500	
424794	24	51	8053	4.6	366	1952	1	7800	4.9	381		1	11110	505			
						1953	8	8490	4.6	385		6	9172	413	5	9350	419
						1954	12	7889	4.6	358		12	8877	422	9	8416	406
						1955	7	7434	4.6	337		7	7714	371	6	8079	380
						1956	7	7634	4.6	354		7	8207	390	4	7369	373
						1957	5	7266	4.6	330		3	7093	351	3	8048	391
						1958	2	6105	5.1	305		2	8225	347			
						1959	7	8696	4.7	404		5	8436	391	4	9933	463
						1960	2	9365	4.7	438		2	9370	387	2	9832	415
426820	13	27	7633	4.6	353	1953	2	9130	4.3	393		1	8110	412	1	8567	
						1954	3	9720	4.5	433		3	9063	437	3	9341	462
						1955	4	10680	4.6	481		4	10090	488	3	8905	451
						1956	5	8506	4.8	403		4	8980	437	5	9156	435
						1957	5	8928	4.9	436		4	9890	495	4	9393	465
						1958	5	5944	4.6	283		5	8836	430			
						1959	3	7073	4.3	304		3	10540	477	3	10613	465
428870	14	18	8025	4.9	388	1958	6	9020	4.8	428		6	8130	375	1	8676	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1959	6	8018	4.9	396	6	8552	396	6	9474	429
						1960	6	7605	4.8	366	6	7617	344	6	9906	426
430402	5	6	6151	5.2	315	1958	4	6295	5.3	332	4	9070	407			
						1959	1	6150	4.8	297	1	7470	376	1	9625	436
						1960	1	5780	4.5	259	1	8070	360	1	7336	330
430463	1	1	7950	5.2	417	1958	1	7950	5.2	417	1	12630	490			
432069	83	121	8623	5.0	431	1956	4	9643	5.1	494	4	10518	449	1	12481	476
						1957	14	8214	4.8	395	14	9220	403	13	9320	408
						1958	32	8972	5.0	451	32	9477	428	4	10113	471
						1959	53	8561	5.0	430	53	9347	424	50	9939	454
						1960	18	8974	4.9	442	18	9499	420	17	9686	438
433384	19	42	8814	5.1	447	1952	2	9800	5.1	493	1	8780	418			
						1953	2	8810	5.1	449	1	10100	441	1	7652	354
						1954	5	10510	4.9	516	5	10998	510	4	10197	464
						1955	3	10040	4.7	477	3	10007	497	3	9723	474
						1956	7	7984	4.9	389	5	10002	478	5	10144	493
						1957	8	8785	5.1	446	8	9585	466	6	10048	485
						1958	9	8793	5.4	478	6	8667	437			
						1959	6	9455	5.1	485	6	9990	489	5	10028	500
433930	1	2	7870	4.9	388	1959	1	9060	5.0	455	1	11770	472	1	12099	499
						1960	1	6680	4.8	321	1	8960	370	1	9527	367
436268	3	4	7615	4.4	342	1958	1	8860	5.0	442	1	15800	731			
						1959	3	7613	4.5	347	3	8450	359	3	8393	372
436380	2	2	8830	4.8	424	1959	2	8830	4.8	424	2	11135	445	2	11800	490
437282	2	4	8939	4.2	375	1954	1	7640	4.6	347	1	11000	484	1	8873	411
						1955	1	8680	4.5	391	1	9670	492	1	9875	463
						1956	1	7730	4.5	345	1	8880	354	1	10410	469
						1957	1	9860	3.9	388	1	10800	537	1	9897	487
437283	3	4	9113	4.3	391	1955	1	9250	4.2	388	1	7900	374	1	8622	379
						1957	1	8350	4.4	368	1	6590	325			
						1958	1	10710	4.3	463	1	12710	502			
						1959	1	8770	4.2	369	1	12830	474	1	12993	485
438411	11	14	8230	4.6	378	1958	5	7822	4.6	362	5	9716	414	2	10197	430
						1959	7	8371	4.7	396	7	9531	420	7	9788	421
						1960	2	8380	4.2	343	2	7380	327	2	8627	388
439085	5	7	7327	4.8	351	1953	2	7385	4.6	355	1	9880	474	1	9439	481
						1954	2	8160	4.8	388	1	9950	493	1	9723	494
						1956	1	8500	5.6	480						
						1959	1	5050	4.5	227	1	6720	372	1	9723	483
						1960	1	7540	4.1	307	1	7640	276	1	12459	446
440484	10	10	8238	4.8	393	1959	8	8189	4.6	378	8	8805	410	8	8953	407
						1960	2	8435	5.5	453	2	8115	393	2	8143	398
440498	1	1	6150	4.8	293	1960	1	6150	4.8	293				1	9014	402
441734	2	5	9672	4.4	417	1956	1	8240	4.4	364	1	8250	409	1	9407	438
						1958	2	10055	4.4	436	2	8290	372	1	9134	368
						1959	1	9380	4.6	431	1	8060	400	1	9429	444
						1960	1	10190	4.1	420	1	9220	388	1	7924	330
443144	4	4	9705	4.5	427	1958	1	11210	3.6	408	1	9370	419			
						1959	3	9203	4.7	434	3	8240	374	3	9367	415
443594	6	6	7232	4.8	348	1957	2	7910	4.6	355	2	7935	371	2	7870	376
						1958	2	4970	4.6	224	2	10475	498			
						1959	2	8815	5.4	466	2	10030	453	2	10273	441
443991	3	4	8353	4.6	389	1958	1	9100	4.5	408	1	8450	416			
						1959	2	9300	4.7	440	2	8115	406	2	8807	426
						1960	1	6630	4.6	306				1	13004	494
444418	9	18	8251	4.8	392	1955	1	7160	4.7	335	1	8000	373	1	6867	328
						1956	3	7583	5.1	388	3	8790	425	3	8735	426
						1957	1	5180	4.8	247	1	6090	277	1	7249	334
						1958	5	7768	4.6	371	4	8663	388	1	10279	455
						1959	6	9243	4.6	431	3	10103	468	3	10013	478
						1960	2	9335	4.7	436	2	12115	493	2	11222	461
447144	13	27	6844	4.9	332	1953	3	6297	4.7	297	2	8940	405	2	8186	388
						1954	6	7323	5.1	364	6	8812	401	6	8319	399
						1955	3	6983	4.8	331	2	9705	454	3	8869	428
						1956	5	7018	4.9	338	5	8354	354	4	9276	412
						1957	5	7728	4.9	380	5	9700	430	5	9428	415
						1958	4	7600	4.8	361	4	10383	467			
						1960	1	9830	4.4	431				1	8949	437
447971	5	8	9304	4.9	455	1958	2	10510	4.5	469	2	10025	436	2	11031	497
						1959	3	10733	4.9	518	3	9947	423	3	10936	464



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR														
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.				
						1960	GUERNSEY				3	8527	5.1	437	3	8530	390	3	9178	439
449173	1	1	7810	5.1	400	1960	1	7810	5.1	400	1	8160	337		1	10704	448			
454223	2	3	9810	5.0	483	1955	1	10040	5.1	508	1	8400	431		1	8458	402			
						1959	2	9580	4.8	457	1	12160	559		1	12393	548			
454224	1	2	8085	4.8	383	1956	1	8340	4.5	373	1	8480	399		1	9058	432			
						1957	1	7830	5.0	392										
454483	4	7	8164	4.2	340	1956	1	10260	4.3	444	1	3760	187		1	10388	479			
						1957	2	5970	4.3	256	1	14740	575		1	11031	489			
						1958	2	9560	4.1	391	2	10965	484							
						1959	1	6910	4.1	281	1	7460	346		1	8012	384			
						1960	1	8650	4.6	398	1	8990	439		1	9407	459			
457384	1	1	10640	4.2	448	1959	1	10640	4.2	448	1	9940	507		1	11423	538			
457544	2	3	3310	4.7	185	1957	1	7670	5.7	437	1	8010	386		1	9232	457			
						1958	2	2610	4.7	144	2	7450	350							
459005	7	8	7589	4.6	351	1954	1	9440	5.4	510										
						1958	3	7363	4.3	320	3	8390	365							
						1959	4	7355	4.6	335	4	8028	392		2	8589	393			
459186	12	28	8527	4.8	409	1956	3	8967	4.9	435	3	9003	443		1	7630	368			
						1957	9	8363	4.8	395	9	8736	407		9	8854	423			
						1958	9	8718	4.9	425	9	10009	455		1	9091	434			
						1959	6	9612	4.8	457	6	10480	466		6	10444	474			
						1960	1	9470	4.8	452	1	15230	563		1	13756	518			
459489	19	40	9174	4.6	424	1955	5	9810	4.7	458	4	10850	489		3	8440	418			
						1956	3	8510	4.6	387	3	10000	478		1	9112	450			
						1957	6	10148	4.8	484	5	8796	407		4	9925	420			
						1958	12	9292	4.6	423	10	9059	403		1	11609	413			
						1959	12	8680	4.5	390	11	8855	401		10	9460	430			
						1960	2	9280	4.7	436	2	11050	446		2	9947	450			
460543	1	3	8047	5.2	419	1957	1	8150	5.0	405	1	8220	391		1	8284	398			
						1958	1	8210	5.1	417	1	7550	366							
						1959	1	7780	5.6	435	1	8130	407		1	8905	424			
460803	5	5	7584	5.1	387	1959	3	7400	5.4	398	3	8093	418		2	8366	411			
						1960	2	7860	4.7	372	2	10150	464		2	9352	447			
461965	10	10	6860	5.0	344	1958	1	6160	4.8	299	1	7810	373							
						1959	7	7357	5.1	374	6	8407	387		6	9552	454			
						1960	2	5470	4.8	261	1	9290	410		2	9636	447			
465262	2	3	6370	5.0	323	1959	2	7155	5.1	363	2	9535	400		2	11227	473			
						1960	1	3980	4.4	175	1	9490	382		1	9527	387			
467697	1	1	11220	4.8	538	1958	1	11220	4.8	538	1	9130	418							
467793	27	39	9132	4.9	445	1957	4	7125	5.1	366	4	8808	404		2	8862	437			
						1958	9	8589	4.9	424	9	8852	385		3	10929	446			
						1959	23	9434	5.0	466	23	10203	439		20	10703	460			
						1960	3	10503	5.0	525	3	11640	487		3	11703	478			
469672	16	25	7460	4.7	354	1957	5	7062	4.5	319	5	9552	414		5	9374	416			
						1958	9	8172	4.6	384	9	9694	439		1	9091	434			
						1959	11	7602	4.9	377	11	9268	422		11	9542	435			
470947	6	8	8406	4.8	400	1956	1	7940	5.4	426	1	7080	337		1	8938	411			
						1957	2	9620	4.9	450	2	10935	455		1	11031	489			
						1958	1	10070	5.0	501	1	8000	394		1	10322	488			
						1959	3	9127	4.6	423	3	10460	480		2	11009	496			
						1960	1	6030	4.0	241	1	8390	309		1	12459	446			
471998	1	1	7650	3.7	284	1958	1	7650	3.7	284	1	6760	288							
472164	1	1	3070	5.1	156	1959	1	3070	5.1	156	1	8720	371		1	12099	499			
474044	1	1	5560	4.3	237	1958	1	5560	4.3	237	1	16100	749							
474743	9	10	9037	4.7	430	1958	1	8810	4.9	431	1	10170	490							
						1959	8	9380	4.8	450	8	9265	426		8	10068	458			
						1960	1	7300	4.4	320	1	5360	255		1	7957	400			
475595	26	26	9345	4.8	451	1959	12	10248	4.9	496	12	11303	479		11	11759	497			
						1960	14	8571	4.8	413	11	9448	430		13	10079	462			
478142	1	1	9540	4.8	454	1959	1	9540	4.8	454	1	12080	483		1	11456	510			
478507	8	8	9035	4.9	447	1959	4	9073	5.1	462	4	9593	434		2	9401	423			
						1960	4	8998	4.8	432	2	8110	404		4	9192	439			
481874	1	1	7910	4.8	375	1959	1	7910	4.8	375	1	9870	367		1	11401	434			
488725	2	4	9095	5.2	463	1958	2	9575	5.1	479	2	8635	415							
						1959	2	8615	5.2	446	2	8455	410		2	8873	429			
489360	1	1	8120	4.1	331	1958	1	8120	4.1	331	1	15870	741							
490550	1	1	5680	4.3	245	1960	1	5680	4.3	245	1	6920	264							
490695	3	4	8905	4.5	400	1958	1	7310	4.5	327	1	6820	308							
						1959	3	9133	4.5	409	3	10430	469		3	9825	443			
492314	2	2	10600	4.4	454	1958	1	10060	5.0	501	1	9850	467							



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						1959	GUERNSEY									
							1	11140	3.7	407	1	8590	402	1	9952	447
500170	1	1	9420	4.1	387	1959	1	9420	4.1	387	1	8290	383	1	8393	372
500172	2	2	6440	4.7	289	1959	1	9610	4.3	416	1	8220	354	1	8393	372
						1960	1	3270	5.0	162	1	8910	376	1	10704	448
501777	1	2	4620	5.5	254	1958	1	4660	5.5	257	1	6240	304			
						1959	1	4580	5.5	251	1	8550	381	1	6562	308



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						REC'D AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1953	26	12840	3.5	443	17	12725	472	11	12320	442
						1954	24	11756	3.4	398	18	12312	451	16	12154	434
						1955	12	11605	3.5	412	8	13470	490	7	12378	453
						1956	6	12177	3.4	420	5	12506	459	5	12507	476
						1957	3	9467	3.3	311	1	12300	445	1	11914	446
						1958	4	10956	3.4	371	2	11560	424	2	11592	432
						1959	1	11450	3.5	398	1	11630	423	1	11271	409
718344	1	1	12600	3.4	424	1958	1	12600	3.4	424	1	10630	381			
722342	2	3	11163	3.7	411	1950	1	12240	3.4	421						
						1951	1	9770	3.4	331						
						1954	1	11360	3.9	445	1	12600	446	1	10747	384
724856	25	83	12584	3.7	465	1947	29	12237	3.7	448	1	10950	451			
						1948	15	12879	3.8	484	1	13500	511			
						1949	13	13726	3.7	507	3	14477	527			
						1950	9	12922	3.7	475	2	11765	446			
						1951	5	13178	3.7	487	2	16740	588			
						1952	3	13093	3.9	519	2	15125	598			
						1953	3	14073	3.8	533	3	13887	510	2	12939	485
						1954	2	14515	3.8	553	2	14500	547	2	13222	512
						1955	3	14623	3.7	538	3	12957	481	2	13974	522
						1956	1	10040	3.5	352	1	11630	435	1	13778	472
729030	1	1	11160	3.3	371	1949	1	11160	3.3	371						
733213	1	3	13560	3.5	467	1947	1	14160	3.7	517						
						1948	1	12890	3.2	414						
						1949	1	13630	3.5	471						
733862	76	201	12452	3.6	452	1947	48	12720	3.6	457	4	13273	503			
						1948	37	12549	3.7	466						
						1949	33	12685	3.6	459	6	13138	487			
						1950	29	12974	3.7	485	6	12642	466			
						1951	15	13058	3.8	501	6	13643	491			
						1952	9	13489	3.7	504	6	12557	454			
						1953	11	12765	3.9	496	8	12934	475	4	13949	530
						1954	10	13814	3.7	508	9	13574	493	7	12571	462
						1955	4	13345	3.5	474	3	12127	445	3	12702	442
						1956	2	12050	4.1	487	2	11120	458	1	15914	627
						1957	2	15275	3.8	575						
						1958	1	14730	3.4	505	1	12350	440			
738851	1	1	15090	3.6	547	1954	1	15090	3.6	547						
741370	1	2	10205	3.1	329	1950	1	15420	3.3	516						
						1952	1	4990	2.6	141						
741567	51	131	12124	3.6	437	1947	6	10480	3.5	369						
						1948	24	11083	3.6	396						
						1949	29	12728	3.6	459	3	10853	397			
						1950	17	12959	3.7	484	3	12733	484			
						1951	15	12635	3.6	462	2	12765	400			
						1952	16	12765	3.6	457	4	12550	462			
						1953	11	12945	3.6	465	4	12093	424	2	11614	430
						1954	5	11276	3.6	399	2	12365	454	3	11688	445
						1955	4	12203	3.4	416	3	11940	433	2	11958	421
						1956	4	11083	3.5	391	4	11898	446	4	12265	449
745887	41	107	12174	3.6	440	1948	10	12296	3.5	431						
						1949	19	12315	3.7	451	3	12597	443			
						1950	21	12605	3.6	455	6	13692	484			
						1951	12	11268	3.7	420	4	12038	442			
						1952	12	13746	3.7	501	5	13672	504			
						1953	10	13116	3.7	477	7	12739	477	7	12772	471
						1954	9	11852	3.7	437	8	12776	477	8	12740	474
						1955	6	13850	3.6	504	6	13400	484	5	13553	484
						1956	4	12585	3.7	462	4	11613	427	4	11952	451
						1957	2	13790	3.6	493	2	9685	363	2	10971	416
						1958	1	17020	3.5	590	1	9720	410			
						1959	1	15030	3.4	513	1	12060	486	1	10562	426
748441	1	1	11080	2.9	325	1947	1	11080	2.9	325						
748994	4	20	13307	3.6	482	1949	1	13030	3.6	465	1	11760	406			
						1950	2	11985	3.7	436	1	10780	361			
						1951	3	11297	3.8	426	2	12360	435			
						1952	4	14436	3.6	507	3	13820	443			
						1953	3	12093	3.7	443	2	11030	392	2	12644	462
						1954	2	15380	3.7	560	2	11575	412	2	11598	415
						1955	1	16410	3.6	583	1	11930	417			
						1956	2	16080	3.5	565	2	10260	358	2	11287	412
						1957	1	14330	3.8	538	1	8880	330	1	11587	427
						1958	1	14900	3.5	526	1	11380	417			
750270	1	2	10315	3.9	403	1953	1	9690	3.9	381	1	14180	494	1	13690	470
						1954	1	10940	3.9	425						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
751641	1	2	14850	3.4	500	1952	1	16420	3.3	541						
						1953	1	13280	3.5	459						
752797	1	1	12530	3.8	473	1947	1	12530	3.8	473						
756626	1	1	12860	3.3	422	1953	1	12860	3.3	422						
757403	85	185	12354	3.5	437	1950	1	11440	3.9	441						
						1951	22	13031	3.5	453	5	10636	379			
						1952	38	12734	3.6	454	10	12148	438			
						1953	30	12307	3.6	447	19	12395	453	13	11736	434
						1954	34	12828	3.5	449	28	11863	427	21	12339	445
						1955	22	12549	3.5	443	19	12167	447	17	11770	429
						1956	17	12545	3.6	443	14	11529	417	12	12620	456
						1957	11	10651	3.4	368	9	11581	420	9	11731	428
						1958	7	11843	3.7	433	7	11400	414	1	8557	317
						1959	1	9050	3.0	274	1	10120	347	1	10475	355
						1960	2	11355	3.1	361	2	11680	440	2	12677	458
759954	1	1	10360	3.0	307	1950	1	10360	3.0	307						
761292	2	4	10602	3.3	351	1948	2	10110	3.4	344						
						1949	1	14410	2.9	423						
						1951	1	11660	3.4	400						
767169	195	467	11914	3.6	429	1949	6	11233	3.9	438						
						1950	27	11695	3.7	425	3	11630	430			
						1951	46	11850	3.6	421	11	12649	456			
						1952	58	12078	3.6	431	24	12393	446			
						1953	59	12003	3.6	437	44	11926	435	36	11754	431
						1954	74	12021	3.6	433	68	11696	422	59	11617	423
						1955	62	12148	3.6	434	53	12097	438	51	11835	431
						1956	40	11687	3.7	426	39	11737	430	29	11978	434
						1957	43	11949	3.6	431	39	12135	439	37	12188	445
						1958	25	12762	3.6	453	24	12603	467	5	12079	454
						1959	21	13336	3.6	478	21	12418	464	18	13339	493
						1960	6	10570	3.3	351	6	12017	436	5	11997	442
769578	1	1	14840	3.7	552	1958	1	14840	3.7	552	1	14950	563			
769920	3	7	9588	3.6	336	1950	1	10910	3.3	356						
						1951	1	9170	3.6	326						
						1952	1	10170	3.5	359						
						1954	1	11590	3.5	404	1	9340	336			
						1956	1	8630	3.6	325	1	11320	451	1	11925	456
						1957	1	8090	3.6	293	1	10100	371	1	11423	434
						1958	1	4550	3.7	168	1	11460	447			
771389	30	62	11757	3.6	416	1948	5	12702	3.5	441						
						1949	11	12648	3.6	454						
						1950	13	12895	3.4	448	1	12820	354			
						1951	9	10796	3.4	369	1	14930	488			
						1952	5	10172	3.6	360	2	11945	426			
						1953	5	11510	3.5	398	2	12220	443	2	11484	416
						1954	4	11238	3.5	395	3	11817	419	2	10987	390
						1955	1	11700	3.4	398	1	12260	437	1	8905	300
						1956	1	9136	3.5	320	1	9690	364			
						1957	3	11945	4.0	474	3	8567	406	1	9036	322
						1958	2	9885	4.9	479	2	7370	370	2	8818	464
						1959	3	10755	4.1	447	3	9230	424	3	8277	393
772579	1	1	13910	3.6	504	1958	1	13910	3.6	504	1	14230	524			
775264	1	1	13410	3.4	456	1958	1	13410	3.4	456	1	12690	506			
778235	1	2	14865	3.1	465	1949	1	12710	3.2	412						
						1950	1	17020	3.0	517						
779315	29	72	12205	3.5	424	1948	2	12635	3.5	440						
						1949	11	13417	3.5	467	1	12530	497			
						1950	11	12056	3.5	426	1	7470	342			
						1951	12	11528	3.7	424	4	10315	407			
						1952	10	12770	3.4	430	1	13110	470			
						1953	13	12666	3.4	433	6	12520	458	4	12053	452
						1954	3	13287	3.7	487	2	10015	432	2	9696	392
						1955	4	11375	3.6	409	4	12673	457	4	12624	461
						1956	3	10147	3.4	352	2	12585	470	2	11238	437
						1957	3	9887	3.5	344	2	10175	388	2	9751	405
779567	5	7	12019	3.7	443	1951	1	11900	3.6	429						
						1952	3	12343	3.6	446						
						1953	2	11795	3.7	432						
						1954	1	13910	4.1	564						
779629	6	6	13162	3.6	472	1952	1	11580	3.7	425						
						1953	1	10036	3.6	356	1	18740	616			
						1956	2	14260	3.7	529	2	10230	436			
						1959	2	14420	3.5	496	2	12615	448	1	13745	487
780674	2	4	12958	4.0	520	1957	1	11310	3.4	368	1	13560	476			
						1958	1	12720	3.4	433	1	13520	467			
						1959	1	16080	4.4	713	1	14540	520	1	13625	503
						1960	1	11720	4.6	543	1	12500	486	1	14072	523
780769	1	6	15576	3.6	554	1954	1	14400	3.4	490	1	14330	538			
						1955	1	16790	3.6	605	1	13120	496			
						1956	1	16110	3.6	573	1	9050	383	1	13211	522

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	1	15620	3.7	580	1	13400	522	1	13135	494
						1958	1	15740	3.5	552	1	10230	427			
						1959	1	14810	3.5	524	1	13860	508	1	16950	625
782352	1	1	11750	3.4	400	1949	1	11750	3.4	400						
783950	1	1	10110	3.5	351	1949	1	10110	3.5	351						
786028	3	13	12821	3.6	458	1951	3	13160	3.6	480						
						1952	3	12003	3.6	430						
						1953	1	13010	3.5	449						
						1954	1	13760	3.4	472						
						1955	1	14330	3.4	462						
						1956	1	12620	3.5	444						
						1957	1	11940	3.4	411						
						1958	1	12070	3.6	431						
						1959	1	11360	3.3	373						
787141	92	200	11661	3.6	416	1950	5	11444	3.5	405	1	13200	506			
						1951	12	12106	3.6	439	5	12416	446			
						1952	20	12209	3.6	437	9	12850	459			
						1953	25	12420	3.6	446	19	12045	437	17	12277	444
						1954	40	10917	3.6	395	40	11938	435	29	11512	423
						1955	30	12079	3.6	429	26	12897	464	27	11994	434
						1956	26	11874	3.7	441	25	12588	467	24	12500	459
						1957	17	11534	3.7	424	17	12050	448	13	13085	484
						1958	19	13596	3.6	484	19	12969	479	3	12604	473
						1959	6	13528	3.6	492	6	14142	525	6	13869	521
787337	10	18	10197	3.5	354	1949	2	9530	3.4	323						
						1950	5	11102	3.4	379						
						1951	4	11783	3.5	410						
						1952	1	12030	3.2	387	1	10060	348	2	11980	440
						1953	3	12100	3.4	409	2	11015	402	2	11004	396
						1954	2	10930	3.5	377	2	10095	356	2	11004	396
						1957	1	11160	3.5	41	1	7750	281	1	11238	417
790125	1	3	13967	3.0	427	1951	1	15860	3.1	494	1	14740	506			
						1953	1	12960	3.1	403						
						1954	1	13080	2.9	384	1	11350	370	1	12099	422
790337	33	78	11946	3.6	428	1949	2	10550	3.9	405						
						1950	8	11963	3.5	419	2	13655	495			
						1951	15	11728	3.7	429	4	12913	462			
						1952	15	12760	3.5	452	7	14251	500			
						1953	8	12253	3.7	451	4	13215	480	4	12579	458
						1954	8	12686	3.6	453	8	13563	479	6	13979	494
						1955	9	12622	3.6	461	8	13076	484	8	12313	454
						1956	6	11613	3.6	415	8	13076	445	6	12217	437
						1957	2	13095	3.8	496	2	14265	469	2	13097	489
						1958	2	8720	3.6	315	2	13365	465	1	12917	447
						1959	2	13475	3.3	436	2	12040	439			
						1960	1	13470	3.7	498	1	13660	450	1	13047	445
793951	89	191	11732	3.6	417	1949	8	13245	3.5	468	1	11050	393			
						1950	22	12684	3.5	449	2	12175	444			
						1951	37	11735	3.6	421	10	11915	456			
						1952	40	12124	3.5	425	13	12503	456			
						1953	31	11439	3.6	414	19	11468	421	12	12653	461
						1954	24	10880	3.6	384	21	10657	399	17	11313	416
						1955	12	11013	3.5	379	11	11195	402	9	10844	396
						1956	7	11280	3.6	400	6	12548	449	7	12733	456
						1957	5	11984	3.5	419	5	10322	398	5	11696	432
						1958	2	9240	3.4	306	1	11970	427			
						1959	3	12267	3.5	437	3	12467	463	2	13810	505
798291	6	21	11662	3.7	436	1949	1	18200	3.4	627						
						1950	2	12165	4.0	481	1	10780	396			
						1951	4	12128	4.0	486	2	12940	471			
						1952	3	13803	3.7	512	2	12635	459			
						1953	3	12470	3.6	441	2	12595	453	2	12317	448
						1954	2	12150	3.8	462	1	11090	392	1	11358	411
						1955	2	12405	4.0	486	1	11760	428	1	11401	415
						1956	1	15340	3.4	527						
						1957	2	11450	3.5	401	1	13230	465	1	11925	447
						1958	1	7540	3.0	229	1	15230	453			
798451	1	1	9830	3.3	324	1951	1	9830	3.3	324						
800738	1	3	11047	3.4	381	1949	1	9560	3.4	330						
						1951	1	12100	3.5	421						
						1952	1	11480	3.4	391						
801505	1	2	9775	3.1	300	1956	1	10520	3.2	333	1	14370	486	1	11707	427
						1957	1	9030	2.9	266	1	12240	423	1	14214	496
802505	90	185	12057	3.7	444	1947	3	9840	3.7	360						
						1948	13	11598	3.7	422						
						1949	16	11803	3.7	439	1	12770	501			
						1950	21	12082	3.7	444						
						1951	27	12437	3.7	458	7	13946	504			
						1952	26	12145	3.8	461	6	11698	439			
						1953	29	11701	3.7	428	15	12624	470	11	11439	434
						1954	14	12769	3.6	457	13	12365	459	11	12915	485
						1955	11	11969	3.6	427	11	12450	447	8	11106	389
						1956	12	11668	3.7	440	11	12579	460	11	12080	444
						1957	6	10993	3.6	397	4	12000	452	3	12510	454
						1958	2	14635	3.3	477	2	11975	452	1	10279	455



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
802846	110	243	12066	3.5	423	1959	1	15980	3.4	550	1	10250	493	1	9766	440
						1949	11	12465	3.5	437	1	11730	426			
						1950	34	12081	3.6	430	5	13654	528			
						1951	49	12099	3.5	423	12	12695	457			
						1952	41	12623	3.5	441	17	12205	440			
						1953	35	12412	3.5	437	25	11894	433	18	11328	424
						1954	24	13123	3.4	448	21	11864	430	18	11838	428
						1955	16	12709	3.4	435	14	11859	423	13	11206	402
						1956	11	12525	3.5	435	9	11619	420	7	12638	446
						1957	7	11816	3.5	414	6	11647	417	6	12293	443
						1958	7	12373	3.5	430	6	11218	425	1	8197	314
						1959	6	11497	3.7	424	6	11427	431	4	12873	495
						1960	2	12510	3.5	438	2	12865	461	2	11609	426
807399	1	3	9180	3.7	337	1950	1	7440	3.7	274	1	12110	550			
						1952	1	10800	3.7	397	1	13240	516			
						1953	1	9300	3.7	341	1	14160	537	1	12175	443
808860	3	9	11207	3.4	384	1951	1	14020	3.3	462	1	13760	474			
						1952	1	11500	3.4	396	1	12350	405			
						1954	1	14170	3.5	498	1	13620	451			
						1955	2	9690	3.4	331	2	11675	418	1	9472	330
						1956	1	14060	3.2	450	1	11450	418	1	11674	427
						1957	1	13120	3.4	440	1	12700	472	1	13505	486
						1958	1	15290	3.4	526	1	11970	438			
						1959	1	14940	3.4	507	1	13220	474	1	13254	469
811414	152	331	12073	3.6	432	1949	25	12369	3.5	428	1	11870	416			
						1950	39	12519	3.6	453	2	14530	494			
						1951	63	12708	3.6	458	21	12774	458			
						1952	69	12364	3.6	441	22	12405	459			
						1953	46	11927	3.6	425	25	12204	437	16	12110	439
						1954	40	11457	3.5	408	39	11650	417	31	11794	428
						1955	26	13056	3.6	466	26	12793	467	24	12156	450
						1956	11	11115	3.6	402	11	11250	419	10	11855	446
						1957	7	13590	3.7	498	6	12768	477	6	13623	520
						1958	3	13080	3.6	493	3	12777	486			
						1959	1	8160	3.6	296	1	15330	549	1	14879	501
						1960	1	10220	3.4	344				1	13113	482
811487	3	8	13045	3.8	497	1951	1	13910	3.8	532	1	13910	462			
						1952	1	14710	3.5	517	1	14820	525			
						1953	1	14720	3.6	532	1	13560	506			
						1954	1	15860	3.6	573	1	16410	551			
						1955	1	14170	3.7	525	1	14980	504	1	14475	566
						1957	2	12210	4.0	475	2	11010	409			
						1958	1	10180	4.3	442	1	10280	378			
812359	2	3	8100	3.3	268	1953	1	7800	3.3	260						
						1954	1	8880	3.4	300	1	9360	372	1	8546	361
						1955	1	7920	3.2	250	1	8730	339	1	9352	370
812779	2	4	13807	3.4	466	1954	2	11760	3.4	402	1	13670	473			
						1955	1	16360	3.2	531	1	14430	514	1	13571	465
						1956	1	16020	3.4	539	1	13740	479	1	13516	479
813564	2	2	11445	3.7	419	1951	1	10430	4.1	430						
						1957	1	12460	3.3	407	1	11310	413			
814676	280	701	12505	3.5	430	1947	1	13080	3.2	421						
						1948	7	11734	3.4	397						
						1949	51	12730	3.4	438	5	13146	468			
						1950	79	12781	3.5	444	15	13008	473			
						1951	116	12818	3.5	440	30	12249	442			
						1952	114	13197	3.5	456	38	12654	461			
						1953	89	12959	3.5	449	48	11661	428	37	11917	435
						1954	80	12937	3.5	450	61	12233	442	49	11793	431
						1955	51	13351	3.5	467	44	12314	453	39	12072	443
						1956	46	12403	3.4	421	37	12120	439	29	12617	460
						1957	26	12770	3.5	437	19	12291	444	19	12816	463
						1958	26	13900	3.4	470	18	11968	440	2	11451	446
						1959	9	13367	3.5	469	8	11434	412	8	12509	440
						1960	6	11197	3.3	358	6	11340	420	4	12045	441
816372	2	2	12205	3.8	461	1954	1	12170	3.3	399	1	12510	466			
						1955	1	12240	4.3	523	1	13200	508			
816734	391	659	13625	3.5	477	1953	15	14399	3.3	477	10	12063	439	9	12631	470
						1954	45	13268	3.5	461	40	11876	437	36	12187	446
						1955	45	14089	3.4	483	41	12450	458	33	12411	454
						1956	54	13554	3.4	461	52	11135	412	45	12228	452
						1957	80	13026	3.5	449	77	11279	418	72	11945	438
						1958	152	14383	3.5	502	147	12412	455	22	13549	48

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIOns--GROUPEd BY BREd, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS ND.	RECORDS ND.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
HDLSTEIN																
820653	223	491	11764	3.7	433	1957	2	11984	3.7	445	52	11436	422	47	12075	440
						1958	57	12551	3.7	461	53	11290	416	4	11393	425
						1959	57	12297	3.7	449	57	12565	448	49	13169	479
						1960	7	11383	3.5	393	6	12567	451	7	13034	474
						1949	2	14875	3.8	554						
820653	223	491	11764	3.7	433	1950	10	13186	3.6	474	2	13945	491			
						1951	35	12406	3.6	445	9	14257	529			
						1952	43	11836	3.7	437	20	12099	456			
						1953	54	12135	3.7	443	36	12316	448	28	11913	432
						1954	83	11386	3.7	419	75	11841	428	65	11603	429
						1955	64	11939	3.7	445	60	12329	443	55	11752	427
						1956	54	11554	3.6	422	51	11470	416	44	12528	455
						1957	53	11293	3.8	425	51	11232	419	43	12006	444
						1958	54	12805	3.7	476	54	11514	442	5	13937	496
						1959	33	12856	3.7	477	33	11997	440	27	13643	497
						1960	6	12937	3.7	477	6	13022	464	6	14187	520
820769	205	422	10976	3.9	428	1949	4	11883	4.0	470						
						1950	16	12252	3.9	470	2	10225	399			
						1951	24	10802	3.9	426	3	12270	523			
						1952	33	11256	4.0	451	10	12222	456			
						1953	63	11361	3.9	437	41	12631	463	32	12313	456
						1954	77	10954	3.9	425	73	11811	432	58	12062	447
						1955	59	11341	4.0	445	57	12505	450	49	12034	457
						1956	47	10685	3.9	417	44	11966	438	38	12547	463
						1957	40	10642	3.9	413	34	11947	439	32	12309	457
						1958	27	12708	3.9	492	25	11908	436	6	12537	467
						1959	25	12107	4.0	485	25	12951	470	20	13501	487
						1960	7	12241	3.9	477	7	13647	507	7	13745	508
821042	35	93	10437	3.5	365	1949	17	10218	3.4	352	5	12846	517			
						1950	23	8943	3.5	310	5	9866	334			
						1951	17	10868	3.5	375	7	11100	410			
						1952	12	11262	3.5	398	7	11937	460			
						1953	6	11298	3.6	406	6	13480	507			
						1954	8	11869	3.6	431	6	12000	444	8	12252	446
						1955	4	12263	3.5	427	3	11887	471	4	12862	477
						1957	2	10410	3.7	381	2	10325	360	2	10236	360
						1958	2	11235	3.6	399	2	10675	362			
						1959	1	11710	3.3	567	1	14620	523	1	15369	507
						1960	1	15820	3.2	507	1	15450	546	1	14399	509
822580	50	107	12403	3.6	444	1952	13	13648	3.7	496	8	13154	489			
						1953	16	12369	3.8	471	9	12844	482	5	11746	439
						1954	17	13432	3.6	487	16	12439	445	12	11769	438
						1955	14	13684	3.5	482	13	13911	499	12	13375	483
						1956	14	13243	3.6	476	13	12977	473	12	14306	529
						1957	11	10802	3.5	371	10	12815	458	8	12985	472
						1958	13	12745	3.4	431	13	12812	484	1	14094	594
						1959	8	12748	3.4	433	8	12621	450	6	13830	493
						1960	1	3960	3.0	120	1	4220	113	1	15565	568
822837	5	15	14318	4.0	564	1953	1	18060	3.6	654	1	15540	594			
						1954	3	16630	3.8	634	3	14013	518	3	15380	569
						1955	2	17170	3.8	655	2	16240	571	2	14808	534
						1956	3	14720	3.8	563	3	14367	539	3	14155	521
						1957	2	17795	4.0	703	2	13365	497	2	14170	539
						1958	1	20500	3.7	751	1	9430	394			
						1959	1	10450	4.8	505	1	12420	504	1	13145	501
						1960	2	8715	4.4	373	2	14295	540	2	14410	564
823055	6	12	12720	3.5	450	1951	1	14010	3.4	475						
						1952	1	14310	3.5	500						
						1953	4	11460	3.4	393	3	12273	441	3	12513	448
						1954	2	14360	3.7	536	2	16125	612	1	13789	557
						1955	1	13800	3.3	452	1	13070	470	1	13254	471
						1956	1	12630	3.7	462	1	9670	322	1	12284	429
						1957	1	9050	3.5	320	1	10590	390	1	11510	405
						1959	1	13640	3.3	456	1	11690	434	1	13745	518
826222	36	70	11116	3.6	394	1949	5	11762	3.3	388						
						1950	13	11556	3.6	408	1	13990	482			
						1951	9	10442	3.5	361						
						1952	11	11238	3.6	405	3	12463	424			
						1953	8	10710	3.6	380	5	11464	418	2	11500	420
						1954	12	10974	3.7	395	9	11340	411	8	11497	429
						1955	3	8793	3.6	312	1	12610	461	1	11521	415
						1956	4	11955	3.5	415	3	12097	386	3	10867	384
						1957	1	9370	4.0	371						
						1958	2	13775	3.8	515	2	11555	459			
						1959	2	12425	3.6	444	2	12175	443	2	13217	494
826709	35	78	11865	3.7	437	1950	1	13890	3.6	506						
						1951	12	12861	3.7	472	3	13090	462			
						1952	21	12585	3.7	461	8	12460	439			
						1953	18	11030	3.7	401	11	10244	365	10	11098	397
						1954	12	9863	3.7	372	11	10837	390	9	10423	389
						1955	6	12155	3.7	445	6	10688	395	4	10292	389
						1956</										

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	1ST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
826750	12	20	12039	3.7	442	1952	2	12105	3.6	436	1	11450	419			
						1953	7	11677	3.7	439	3	11447	442	3	10646	383
						1954	2	13380	3.6	472	2	12300	455	1	10704	401
						1955	3	10960	3.6	395	2	9295	339	1	13254	471
						1956	2	11660	3.4	401	2	12225	446	2	12399	446
						1957	2	9755	3.8	366	1	11320	456	1	12618	473
						1959	1	13520	4.1	554	1	13540	503	1	13723	526
						1960	1	12840	4.1	552	1	14520	513	1	13957	526
827512	1	2	12020	4.0	484	1955	1	11940	4.0	481	1	15360	581			
						1957	1	12100	4.0	486	1	14800	572			
829732	1	1	19070	3.8	721	1949	1	19070	3.8	721						
830269	1	1	13270	3.5	462	1955	1	13270	3.5	462	1	12060	415			
831073	32	67	13504	3.6	482	1951	2	11350	3.8	431	1	9100	314			
						1952	4	14653	3.6	520	2	13295	444			
						1953	5	15540	3.7	571	4	13368	473	1	11652	427
						1954	12	13805	3.6	499	12	11444	414	9	12296	448
						1955	11	13466	3.7	497	11	13675	474	10	12345	453
						1956	9	12483	3.6	458	9	12032	445	7	12954	482
						1957	6	13107	3.6	476	6	11733	430	6	12057	454
						1958	11	14693	3.6	521	9	12917	470	1	11619	424
						1959	5	13552	3.6	492	5	12212	452	5	13102	489
						1960	2	11500	3.9	442	2	11425	427	2	11009	409
831321	1	2	9970	4.1	391	1955	1	16730	3.9	647	1	12750	412	1	12731	445
						1956	1	3210	4.2	135	1	12290	411	1	13636	467
831861	1	2	12375	3.3	397	1952	1	12350	3.1	378						
						1953	1	12400	3.4	416						
832151	1	2	12060	3.7	438	1957	1	13230	3.5	462	1	10620	401			
						1959	1	10890	3.8	414	1	10770	379	1	11401	412
832407	36	71	11744	3.6	417	1948	15	12914	3.5	453						
						1949	15	12455	3.5	435						
						1950	13	11587	3.6	420						
						1951	12	10891	3.6	397	1	12740	489			
						1952	5	11762	3.6	422	1	11950	494			
						1953	5	10944	3.5	389	2	11145	425	1	10213	373
						1954	4	8125	3.6	288	2	9260	371	2	16786	429
						1955	1	7080	3.3	235	1	13000	474	1	12393	444
						1956	1	10570	4.1	450	1	9640	382	1	15565	598
832736	12	33	13329	3.6	472	1950	4	13228	3.7	506						
						1951	6	12697	3.5	445	4	11075	410			
						1952	8	13624	3.7	498	3	11453	447			
						1953	4	12263	3.6	444	3	10593	382	2	11385	406
						1954	4	12193	3.5	428	4	12720	436	3	10566	407
						1955	4	13528	3.5	476	4	13470	479	4	12189	438
						1956	2	12385	3.4	422	2	13730	497	2	13718	486
						1957	1	8130	3.9	314	1	10950	408	1	10682	400
833599	1	1	13750	3.3	450	1950	1	13750	3.3	450						
834222	1	1	8290	3.1	256	1956	1	8290	3.1	256	1	12020	425			
834606	2	2	13565	3.6	486	1952	1	13630	3.7	498						
						1953	1	13500	3.5	474						
835584	1	1	19460	3.6	696	1950	1	19460	3.6	696						
837429	98	238	11816	3.6	420	1951	6	9457	3.9	441	4	10363	395			
						1952	26	12400	3.7	454	14	13224	479			
						1953	33	11420	3.6	409	27	12124	442	17	12583	456
						1954	46	11625	3.5	413	43	11798	424	33	11763	428
						1955	37	11917	3.5	417	33	11717	425	27	11669	422
						1956	23	12284	3.6	435	21	11740	423	20	12138	435
						1957	24	12747	3.5	442	23	11344	418	19	11520	421
						1958	23	12454	3.5	435	21	12921	464	2	11069	392
						1959	16	13413	3.5	461	16	12474	449	16	13240	475
						1960	4	11558	3.7	424	4	9950	384	4	11720	450
837569	1	1	12760	3.7	470	1955	1	12760	3.7	470						
837641	15	26	14758	3.8	551	1953	1	20410	3.7	752						
						1954	1	24610	3.2	805	1	16950	612			
						1955	2	13605	4.1	537	1	12200	392			
						1957	2	13590	3.9	525	2	12270	427			
						1958	9	14567	3.8	553	9	11612	430	1	7074	263
						1959	6	13502	3.7	503	6	11447	443	6	11558	441
						1960	5	15532	3.8	584	5	12520	472	5	12860	497
837973	1	8	10715	3.6	385	1949	1	12760	3.5	449	1	14260	478			
						1950	1	11060	3.6	402	1	16120	472			</

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						HOLSTEIN											
						1957	1	5720	3.1	177	1	16140	556	1	14214	484	
841476	2	5	10610	3.5	366	1951	1	5960	3.5	224							
						1952	2	12655	3.4	431	2	12675	440				
						1953	1	12650	3.3	423	1	11080	401	1	11020	379	
						1954	1	10420	3.4	356				1	12524	432	
842652	1	1	13500	3.6	487	1958	1	13500	3.6	487	1	15140	573				
842876	18	30	13446	3.7	492	1953	7	14093	3.6	506	7	13430	495	6	12590	471	
						1954	8	13228	3.7	484	8	12743	466	7	12864	470	
						1955	2	9650	3.6	340	2	13350	473	2	10857	401	
						1956	2	17835	3.6	638	2	14060	479	2	13451	486	
						1957	3	13437	3.5	476	3	11313	426	3	12088	446	
						1958	1	13030	3.4	447	1	12350	480				
						1959	6	14335	3.7	527	6	12150	469	6	13131	502	
						1960	1	14870	3.8	566	1	13620	475	1	14715	554	
844122	15	50	12742	3.8	484	1953	1	17060	4.0	690	1	15740	587				
						1954	2	14000	4.2	590	2	12765	488	2	15216	502	
						1955	4	11688	3.9	454	4	13673	501	4	11969	452	
						1956	3	12587	3.7	462	3	11870	445	3	13295	482	
						1957	5	12600	3.8	479	5	12310	460	5	13067	490	
						1958	8	12038	3.6	456	8	12460	461				
						1959	6	14090	3.7	519	6	13348	478	6	13919	517	
						1960	1	12560	4.4	553	1	7680	286	1	11380	417	
844853	1	1	14100	3.4	475	1958	1	14100	3.4	475	1	14760	543				
846979	29	46	11849	3.7	438	1953	3	13250	3.6	472	2	13935	475				
						1954	3	13270	3.6	482	3	12243	453	3	12524	473	
						1955	2	11815	3.5	410	2	12835	481	1	13320	511	
						1956	6	11043	3.7	408	6	12793	476	5	13333	494	
						1957	12	11422	3.8	431	12	11650	442	10	12605	483	
						1958	12	12407	3.8	475	12	12203	457	1	15445	509	
						1959	7	12473	3.7	464	7	13009	499	7	13343	506	
						1960	1	13740	3.7	505	1	11990	465	1	11968	470	
848314	107	246	12265	3.5	435	1951	2	11505	3.6	399							
						1952	32	12820	3.6	462	15	12970	469				
						1953	55	12651	3.5	455	35	12203	448	24	12394	456	
						1954	42	11976	3.6	425	37	11775	429	31	12322	457	
						1955	40	12454	3.5	438	36	12806	463	32	12665	459	
						1956	33	11826	3.5	419	29	11634	428	27	12554	458	
						1957	21	12520	3.5	424	16	11733	435	16	11731	438	
						1958	13	12805	3.4	437	11	12445	469				
						1959	7	13624	3.5	486	7	12711	464	6	14347	528	
						1960	1	15890	3.9	623	1	12020	436	1	12339	453	
849709	180	308	11937	3.7	436	1953	1	15470	3.4	533				4	11960	427	
						1954	11	10865	3.6	389	10	11609	411				
						1955	27	12459	3.7	456	22	12435	447	20	12134	435	
						1956	46	12204	3.6	443	41	11875	433	32	12424	470	
						1957	60	11992	3.7	446	53	12016	439	47	12396	456	
						1958	80	12388	3.7	454	76	12107	452	8	12908	477	
						1959	67	12477	3.7	455	65	12193	447	58	13076	479	
						1960	16	10611	3.5	373	16	11563	418	15	12138	445	
850298	21	53	12755	3.7	463	1952	1	8910	3.7	329	1	10720	356				
						1953	5	14152	3.8	543	4	14745	545	1	14824	570	
						1954	8	12934	3.8	496	8	12646	464	7	11986	444	
						1955	10	12850	3.8	488	10	12432	448	6	11932	422	
						1956	7	12544	3.5	432	6	9710	361	6	11196	419	
						1957	8	11215	3.8	425	8	10970	408	8	11241	427	
						1958	6	13448	3.7	489	6	12107	452				
						1959	7	11969	3.6	426	7	12237	439	6	12499	458	
						1960	1	12840	3.9	502	1	12510	459	1	11609	453	
850998	1	1	17310	3.0	522	1952	1	17310	3.0	522							
853631	69	149	12227	3.6	439	1951	1	15180	4.0	605							
						1952	8	11080	3.6	399	5	11262	395				
						1953	17	12254	3.6	438	14	11992	449	9	11452	414	
						1954	31	12152	3.7	443	28	11620	434	23	11989	451	



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1953	8	12569	3.6	451	8	12715	475	4	12454	462
						1954	8	13684	3.5	478	7	14106	509	6	13950	505
						1955	10	13617	3.6	483	8	14029	504	7	13673	473
						1956	5	9144	3.8	359	5	11592	428	5	12910	466
						1957	10	12277	3.8	457	9	12277	457	8	12366	455
						1958	7	11107	3.8	425	7	11216	441			
						1959	6	11775	3.5	411	6	11722	427	5	12357	446
856661	2	3	10855	3.5	386	1955	1	13890	3.7	513	1	10740	365	1	8807	308
						1957	1	12370	3.9	481	1	9200	344	1	10017	353
						1958	1	8580	3.2	275						
857347	29	63	11867	3.8	448	1954	1	10350	4.1	422	1	9500	363			
						1955	3	15537	3.4	518	3	13943	511	3	13000	485
						1956	10	13530	3.7	501	9	12320	445	7	13855	505
						1957	18	11962	3.8	448	17	11894	443	15	12532	469
						1958	11	12245	3.8	470	10	12342	454			
						1959	16	12598	3.9	484	16	12644	462	16	13309	487
						1960	4	12025	4.0	474	4	12465	466	4	13050	484
857482	9	18	12009	3.8	452	1954	1	10060	4.0	402	1	8560	322			
						1955	2	10220	3.9	383	1	6620	250	2	11925	452
						1957	3	11313	3.7	422	3	12373	434			
						1958	4	12965	3.8	492	4	12598	452			
						1959	6	12967	3.8	494	6	12053	445	6	13076	489
						1960	2	10585	3.7	396	2	11775	432	2	12067	446
857489	1	4	10253	3.6	371	1952	1	11600	3.6	423	1	12570	469			
						1953	1	10730	3.5	377	1	11360	408	1	12263	437
						1954	1	6160	3.6	224	1	12350	440			
						1955	1	12520	3.7	458	1	13716	492	1	16481	593
859031	1	1	16290	3.2	522	1951	1	16290	3.2	522						
859214	7	12	10490	3.9	401	1952	1	10890	4.2	453						
						1953	2	10815	4.2	451	1	13750	509			
						1954	6	10705	3.8	406	3	12067	424			
						1955	2	11880	3.8	439	2	13930	480	2	12851	475
						1958	1	8520	4.0	340	1	7660	309			
859238	1	1	8290	4.1	338	1954	1	8290	4.1	338	1	10660	473	1	9341	428
860909	2	3	11453	3.6	409	1954	1	10370	3.7	382	1	11530	412	1	13254	437
						1955	2	11715	3.6	413	2	12550	447	2	13675	465
862256	202	434	11921	3.7	444	1951	3	12913	3.9	505	1	15870	613			
						1952	27	12836	3.8	490	10	13648	506			
						1953	62	12293	3.7	449	47	12801	457	29	12170	446
						1954	84	12051	3.7	441	78	12249	443	65	12390	449
						1955	63	12538	3.7	458	58	12716	456	55	12644	453
						1956	59	12026	3.8	453	54	12253	452	44	12717	469
						1957	50	11872	3.8	449	46	12542	465	44	12572	468
						1958	44	11218	3.7	423	40	12570	469	7	11945	447
						1959	38	13291	3.8	503	36	13211	483	37	13761	504
						1960	4	13983	3.8	525	4	13275	477	4	14143	512
863100	2	7	11306	3.4	379	1954	2	10305	3.5	358	2	11655	433	2	10982	404
						1955	2	11075	3.5	360	2	10195	364	2	9946	357
						1956	2	11070	3.1	336	2	11400	420	2	11309	408
						1958	1	17090	3.4	585	1	12350	468			
863577	1	3	16027	4.2	681	1954	1	14040	4.3	603	1	13960	540	1	14988	573
						1955	1	17610	4.1	728	1	15490	604	1	14573	565
						1957	1	16430	4.3	711	1	15920	630	1	15892	614
864618	32	73	11481	3.7	421	1952	1	17390	4.2	729	1	15220	581			
						1953	4	12563	3.9	490	3	13917	501	2	14497	542
						1954	13	11228	3.7	414	12	12192	443	9	11624	437
						1955	12	12347	3.8	473	11	13143	480	11	12186	440
						1956	10	12469	3.7	470	9	13126	482	8	12787	476
						1957	9	11277	3.7	421	9	12689	477	9	12521	475
						1958	16	11226	3.6	399	15	11541	435			
						1959	8	12345	3.5	429	8	12428	448	8	12466	456
865315	1	1	7910	3.8	300	1956	1	7910	3.8	300	1	11360	414	1	11314	425
865322	4	7	12955	3.8	479	1953	1	11810	3.7	436						
						1954	1	8400	4.0	337						
						1958	3	14183	3.7	517	3	12893	463			
						1959	2	14205	3.6	513	2	11300	402	2	14159	503
865323	87	118	12662	3.9	485	1954	1	10050	4.1	415	1	9580	412	1	9341	428
						1955	3	14920	3.6	557	3	12277	467	3	11827	447
						1956	8	13971	3.8	532	8	13156	495	8	12393	468
						1957	14	11565	3.8	438	13	11288	429	11	12169	446
						1958	31	12439	3.9	473	29	12887	487	2	13233	486
						1959	58	13211	3.8	504	58	12815	484	53	13481	509
						1960	3	9020	3.8	355	3	13467	530	3	14504	544
865325	16	30	12956	3.7	471	1953	2	11895	3.6	419	2	10595	407	1	10268	343
						1954	7	14313	3.6	517	7	12087	451	5	12858	473
						1955	4	14648	3.7	545	4	11958	444	4	12216	450
						1956	1	16060	3.4	550	1	13230	465	1	12219	456
						1957	6	12900	3.6	462	6	11927	449	5	12339	453
						1958	6	13773	3.8	530	6	12020	452			
						1959	2	14375	3.5	502	2	12805	480	2	13506	511



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
						1960	HOLSTEIN															
866063	6	17	9785	3.5	332	1952	2	10355	3.6	367	1	10700	430		2	12808	452					
						1953	2	9950	3.5	343	1	12060	459		1	10301	467					
						1954	2	12685	3.4	428	2	11340	426		2	11647	457					
						1955	1	12460	3.4	427	1	11730	455		1	12627	475					
						1956	2	15000	3.5	496	2	13250	481									
						1957	2	11915	3.4	402	2	9920	367		1	11979	473					
						1958	5	13617	3.4	462	3	12713	485									
						1959	2	11985	3.4	403	2	11645	442		2	13369	502					
						1960	1	12330	3.7	46	1	12040	425		1	11587	407					
						866178	1	2	10425	3.6	366	1958	1	10646	3.6	378	1	10360	382			
1959	1	10210	3.5	353	1							11720	444		1	10835	393					
867643	1	1	9590	3.9	369	1956	1	9590	3.9	369	1	10790	361									
867648	1	2	15535	3.4	525	1954	1	16390	3.4	554	1	13530	456									
						1957	1	14680	3.4	496	1	10100	379		1	12448	460					
867954	1	1	11310	3.3	378	1957	1	11310	3.3	378	1	10330	379									
869946	1	1	13280	3.7	488	1958	1	13280	3.7	488												
870736	53	60	12928	3.8	483	1951	2	14975	3.7	553												
						1952	2	13055	3.6	474	1	15410	554									
						1953	8	14828	3.6	533	6	13607	514		6	12759	493					
						1954	8	12501	3.7	455	8	13290	505		8	12778	494					
						1955	11	13446	3.8	504	10	13013	481		8	12799	460					
						1956	8	12974	3.8	494	7	12977	481		7	13111	483					
						1957	4	15025	3.7	543	4	12858	454		4	13909	516					
						1958	6	12575	4.0	495	5	10408	392									
						1959	9	12646	3.9	481	9	11661	425		9	12883	466					
						1960	2	12775	3.7	461	1	13730	448		2	14824	517					
871121	228	468	11435	3.8	432	1950	6	11515	3.6	411	1	11270	355									
						1951	20	11373	3.6	426	6	14420	508									
						1952	45	11926	3.8	448	19	13569	498									
						1953	64	11019	3.8	420	43	12142	457		33	11942	457					
						1954	74	11212	3.6	422	63	11920	431		52	11630	424					
						1955	43	12671	3.6	486	37	12235	446		31	12162	441					
						1956	48	11051	3.8	420	46	11695	423		36	12624	467					
						1957	58	11226	3.8	422	53	11773	428		46	12438	457					
						1958	60	12581	3.8	475	56	12231	453		12	12140	459					
						1959	42	12606	3.9	490	42	12850	472		40	13223	486					
						1960	6	12845	3.8	462	8	12189	464		8	13569	513					
873311	4	4	10330	3.6	366	1955	1	7480	3.9	293	1	7600	270	1	9374	357						
						1958	2	10890	3.5	383	1	15180	574									
						1959	1	12060	3.4	406	1	13610	498		1	15271	533					
874002	378	707	12249	3.6	438	1952	4	10288	4.0	400	3	14233	504									
						1953	23	13393	3.6	483	22	13161	486		13	12692	458					
						1954	81	12849	3.5	453	74	12265	452		60	12527	466					
						1955	83	12702	3.6	458	78	12828	464		69	12705	463					
						1956	129	12134	3.7	440	122	11844	435		105	12455	461					
						1957	124	12128	3.6	439	117	11731	432		102	12277	454					
						1958	126	12568	3.6	448	121	12186	450		13	11617	433					
						1959	109	12990	3.6	461	107	12929	476		101	13673	501					
						1960	23	12068	3.5	423	26	11819	424		25	13044	473					
874103	2	4	15699	3.6	555	1953	1	12700	3.5	443												
						1958	1	19660	3.6	716	1	14670	556									
						1959	1	17600	3.5	608	1	13420	525	1	13625	505						
						1960	1	18830	3.6	676	1	14410	530	1	14072	523						
877526	189	418	11410	3.9	437	1949	5	11938	3.8	454	1	14220	515									
						1950	19	12073	3.9	459	5	12250	432									
						1951	30	11788	3.8	446	7	13017	474									
						1952	35	11745	3.8	446	11	12599	458									
						1953	27	12051	3.8	460	19	12518	456		15	12577	456					
						1954	53	11780	3.9	460	46	12535	459		35	12182	447					
						1955	49	11804	3.8	446	46	12558	450		35	12168	442					
						1956	58	11122	3.9	425	53	11642	426		48	12118	444					
						1957	51	11743	3.8	448	46	11827	430		43	12194	448					
						1958	50	12293	3.9	482	49	11509	425		9	11273	445					
						1959	32	11526	3.9	444	32	12367	454		28	12883	471					
						1960	9	11811	3.9	467	9	12228	449		8	13148	492					
						877830	1	1	12360	3.5	428	1953	1	12360	3.5	428	1	12630	419	1	11020	379
						878259	1	1	12970	4.1	532	1958	1	12970	4.1	532	1	15570	543			
878520	2	2	11005	3.7	403	1956	2	11005	3.7	403	2	11190	416	2	11113	394						
878665	8	23	10271	3.5	364	1952	1	13330	3.6	481	1	12940	461									
						1953	5	12096	3.5	423	5	12130	459		3	11184	446					
						1954	3	15060	3.6	542	3	11680	451		2	11783	452					
						1955	5	13082	3.6	472	5	13102	472		4	12541	464					
						1956	3	11507	3.6	414	3	13460	472		3	13113	478					
						1957	1	16550	3.2	535	1	13526	521		1	14007	533					

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORD NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.						
HOLSTEIN																						
880210	41	70	11907	4.0	471	1958	1	20260	3.7	744	1	16010	583									
						1959	3	8683	3.7	323	3	13397	489	3	14058	523						
						1960	1	6680	3.5	234	1	14390	541	1	14977	546						
						1951	1	13060	3.7	481	1	15400	501									
						1952	4	12738	4.0	508	3	12173	480									
						1953	7	12851	4.0	500	7	13727	484	4	13154	467						
						1954	6	12510	4.0	502	6	12788	484	6	12482	477						
						1955	6	11973	4.0	472	6	12417	448	3	12019	452						
						1956	2	12301	4.1	505	9	13060	482	8	13369	459						
						1957	13	10975	4.3	454	11	11675	448	8	12126	455						
						1958	13	11681	3.9	444	13	11677	419	1	11617	424						
						1959	8	13719	3.7	506	8	13331	487	8	14469	527						
						1960	3	11690	4.0	472	3	14180	553	3	13593	522						
880723	2	3	12010	4.2	495	1955	1	13780	3.9	538												
						1959	1	12280	4.5	550	1	13590	566	1	13543	566						
						1960	1	5200	4.5	353	1	13200	540	1	13244	507						
881376	1	1	10710	3.3	354	1956	1	10710	3.3	354	1	13660	498	1	12818	436						
882931	9	16	13033	3.5	452	1957	3	12707	3.3	422	2	11245	414									
						1958	7	12871	3.5	452	7	11246	415									
						1959	5	13632	3.4	466	5	12462	444	5	12858	464						
						1960	1	11060	4.1	449	1	11890	447	1	12557	474						
882939	8	21	12354	3.7	456	1952	2	13350	3.7	489	1	14560	502									
						1953	2	12810	3.9	506	1	13770	483									
						1954	1	12390	4.0	494	1	16140	562									
						1957	2	10545	3.8	402	2	12315	451									
						1958	6	12607	3.7	461	6	12820	465									
						1959	4	12968	3.5	461	4	12675	464	4	12647	460						
						1960	4	11585	3.7	433	4	12660	462	4	12432	457						
883725	1	5	10760	3.8	407	1953	1	9610	3.6	350												
						1954	1	10520	3.8	399												
						1955	1	11820	3.7	434												
						1956	1	10730	3.6	408												
						1957	1	11120	4.0	444	1	10990	391									
884249	1	3	12227	3.6	445	1956	1	13045	3.8	477	1	11570	426									
						1957	1	12090	3.4	415	1	11480	396	1	11271	397						
						1959	1	11550	3.6	421	1	13140	487	1	12949	435						
884431	63	121	12939	3.4	443	1952	10	14603	3.5	485	3	13023	458									
						1953	14	12957	3.6	458	10	12220	446	8	11456	413						
						1954	32	13244	3.5	456	27	12044	437	19	12139	446						
						1955	17	12694	3.5	436	17	12769	460	13	12277	444						
						1956	18	13326	3.5	460	18	11542	431	15	12788	463						
						1957	11	13951	3.4	477	10	11673	423	10	12377	448						
						1958	10	12384	3.4	418	9	10567	390									
						1959	8	14186	3.2	457	8	12275	454	7	12895	457						
						1960	1	5430	3.4	182	1	7290	284	1	12045	441						
						885850	19	34	12962	3.6	470	1957	3	12545	3.8	477	3	12907	469			
												1958	10	12884	3.7	468	10	12122	447			
1959	14	13189	3.7	479	14							12459	443	14	13173	473						
1960	7	11893	3.5	419	7							11147	409	7	12473	446						
886218	25	43	11118	3.7	410	1955	5	10092	3.8	377	4	11868	426	1	11194	415						
						1956	9	10573	3.8	398	9	11072	412	5	11781	437						
						1957	13	10128	3.6	367	12	11213	397	12	11673	424						
						1958	7	13116	3.8	493	7	11750	419									
						1959	7	13453	3.8	506	6	11445	444	5	12434	466						
						1960	2	11815	3.8	446	2	9060	302	2	11560	391						
886370	38	82	11065	3.8	413	1953	15	11753	3.7	440	11	11957	438	6	11509	415						
						1954	15	11091	3.6	425	14	11660	435	9	11653	441						
						1955	11	10931	3.8	416	11	11600	424	8	11607	425						
						1956	11	11529	3.8	437	11	12560	452	7	12371	445						
						1957	9	11866	3.6	448	8	12175	440	7	11772	428						
						1958	9	11580	3.4	396	9	12169	450	2	12361	431						
						1959	10	12519	3.5	437	10	12752	448	9	12540	445						
						1960	2	11920	3.5	421	2	10675	368	2	10787	395						
						886313	11	22	11540	3.6	413	1951	1	11950	4.1	487						
1952	6	12792	3.6	466	3							10430	367									
1953	2	11990	3.5	410	2							11310	445	2	9712	391						
1954	4	10133	3.6	369	4							11648	417	3	9959	373						
1955	2	7865	3.5	274	2							11295	416	2	11396	430						
1956	2	10690	3.7	399	2							10900	405	2	11887	446						
1957	2	10925	3.7	400	1							9560	377	1	9581	373						
1958	1	12470	3.5	441																		
1959	1	10730	3.2	346	1							11690	413	1	11663	410						
1960	1	11310	3.2	362	1							10150	356	1	10693	372						
888340	14	35	12481	3.7	458	1954	4	11763	3.7	431	4	12283	442	4	12312	454						
						1955	3	11313	3.7	424	3	11143	401	3	12092	476						
						1956	5	12368	3.7	460	5	11503	413	5	12738	454						
						1957	4	12136	3.7	443	4	11460	422	4	12140	434						
						1958	10	12775	3.7	475	9	13350	491	1	10322	399						
						1959	8	11615	3.5	406	8	13014	466	8	13199	473						
						1960	1	14370	3.5	498	1	12700	434	1	11772	438						

DAUGHTER AVERAGE BY SIRE

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
889044	100	195	11429	3.6	410	1951	3	13133	3.6	476	1	13320	468			
						1952	22	11977	3.6	432	7	11999	432			
						1953	21	13136	3.5	455	15	12205	424	13	11572	418
						1954	24	12752	3.6	461	21	11751	422	16	11455	425
						1955	36	11723	3.6	420	32	11729	421	27	11732	425
						1956	27	10888	3.7	395	25	10906	403	19	12652	433
						1957	24	10968	3.6	394	19	11574	419	20	11500	421
						1958	20	11998	3.5	419	19	10523	397	3	12161	444
						1959	12	11530	3.5	403	12	11158	400	10	12086	439
						1960	6	11475	3.4	379	5	12168	436	5	12603	449
889312	1	1	13200	3.6	477	1957	1	13200	3.6	477	1	11640	456	1	10791	439
889884	9	23	11218	3.7	417	1951	2	13950	3.3	456	2	11010	380			
						1952	6	10977	3.8	418	5	11764	420			
						1953	4	10225	3.5	350	4	11668	422	2	10028	367
						1954	6	10875	3.6	415	5	11504	426	6	11708	432
						1955	3	12157	4.0	480	3	12070	427	2	11623	430
						1956	2	9305	4.1	379	2	11140	391	2	12301	449
890181	42	62	11334	3.9	443	1956	3	11487	3.6	417	3	13403	483	3	12836	474
						1957	12	11319	4.1	463	11	11564	445	11	11492	449
						1958	22	11267	3.9	436	22	12278	470	1	11543	412
						1959	23	12025	3.9	472	23	12346	475	22	12905	494
						1960	2	11060	3.9	431	2	10100	371	2	10998	413
890281	1	3	10603	3.9	413	1955	1	10650	3.8	405	1	15500	516	1	13941	488
						1956	1	11930	3.9	469	1	13870	475	1	15816	541
						1957	1	9230	4.0	366	1	14740	535	1	14301	491
890463	14	23	12499	3.6	456	1953	1	12280	3.6	439	1	10560	371			
						1954	4	12453	3.5	431	4	11560	413	3	12216	447
						1955	2	12725	3.7	470	2	12655	476	2	11859	444
						1956	3	11343	3.7	415	3	11613	440	2	13451	510
						1957	5	9590	3.5	335	3	10047	374	1	11423	423
						1958	4	13293	3.7	474	4	12448	486	1	14562	560
						1959	4	14460	3.5	548	3	13980	526	4	14178	551
891850	2	12	12902	3.7	479	1952	2	12070	3.7	439	2	13480	477			
						1953	2	13785	3.9	534	2	13920	527	2	13156	482
						1954	2	12655	3.7	467	2	13630	491	2	11630	441
						1955	2	13295	3.6	478	2	13550	466	2	13222	486
						1956	2	12925	3.7	471	2	14245	525	2	13581	481
						1957	2	12680	3.8	482	2	15460	586	2	13876	505
893388	1	2	14045	3.8	530	1959	2	14045	3.8	530	2	13975	527	2	13625	505
893866	104	206	11747	3.7	430	1951	1	11420	3.4	392	1	12090	425			
						1952	7	14003	3.6	496	5	12448	450			
						1953	14	11705	3.6	440	9	11341	416	8	11780	429
						1954	29	12070	3.6	456	26	11650	426	22	11516	419
						1955	33	12098	3.7	447	30	12198	442	23	11536	425
						1956	35	11502	3.7	424	30	11101	408	28	11784	439
						1957	32	11918	3.7	440	29	11688	426	30	12237	449
						1958	25	12689	3.6	460	24	12167	448	2	13582	485
						1959	23	12694	3.6	460	23	13158	477	23	13151	476
						1960	7	10254	3.8	389	6	11662	415	6	13954	567
894515	1	6	12267	3.6	436	1950	1	15900	3.3	524						
						1951	1	14350	3.5	508	1	17450	592			
						1952	1	8470	3.6	302	1	11310	431			
						1954	1	14070	3.7	527	1	11660	451			
						1955	1	10580	3.7	393	1	11090	437	1	10431	416
						1956	1	10230	3.5	362	1	12970	478	1	12742	491
895911	2	5	12769	3.8	476	1956	1	14280	3.5	499	1	13400	439	1	12513	431
						1957	1	15340	3.5	539	1	12740	408	1	13963	465
						1958	2	12990	3.8	487	2	12670	413			
						1959	1	14270	3.9	558	1	13630	472	1	13767	456
895914	1	1	13370	3.1	410	1960	1	13370	3.1	410				1	14235	517
900107	74	150	11920	3.6	426	1952	5	14366	3.5	506	2	14070	540			
						1953	17	13116	3.6	468	12	13110	474	8	12254	436
						1954	24	12636	3.5	443	19	12272	445	15	11643	421
						1955	24	12110	3.6	433	21	12786	454	19	12290	442
						1956	24	12392	3.6	451	22	12589	461	17	12738	467
						1957	22	11306	3.7	413	18	11493	416	16	12537	451
						1958	19	11746	3.5	411	19	12021	440	2	13816	519
						1959	12	12909	3.6	463	12	12453	454	11	13150	476
						1960	3	8277	4.0	341	2	13555	484	3	11263	430
900108	147	299	12252	3.6	435	1951	2	14530	3.5	510	1	12560	487			
						1952	12	13553	3.4	450	5	12624	463			
						1953	30	12627	3.6	449	24	12463	452	12	11453	418
						1954	68	12523	3.6	445	60	12416	451	57	12068	441
						1955	49	12380	3.6	441	45	12666	465	36	12357	451
						1956	45	12206	3.3	430	44	11538	420	40	12765	462
						1957	29	12119	3.5	429	28	11757	425	25	12215	446
						1958	26	12976	3.6	459	28	12534	459	4	12022	432
						1959	31	12150	3.6	437	30	12715	453	24	12759	463
						1960	5	11062	3.6	422	3	13114	487	5	12638	462
900274	23	35	12897	3.9	497	1957	6	11735	3.8	443	6	12646	440	7	12502	453

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LG.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LG.	AVERAGE FAT LB.
HOLSTEIN																
						1958	11	13703	3.9	331	11	13483	491	1	12579	427
						1959	15	13081	3.9	504	14	12634	471	14	12266	458
						1960	1	16840	4.1	696	1	14000	515	1	15347	566
901114	184	311	12075	3.7	440	1952	4	10678	3.5	380	1	11220	403			
						1953	12	11341	3.5	398	7	12110	425	5	11580	442
						1954	29	11922	3.6	434	23	11836	436	18	11437	419
						1955	39	12784	3.6	458	35	13039	470	26	12779	464
						1956	37	12286	3.6	443	31	12145	444	28	12465	455
						1957	40	12003	3.6	428	35	12207	443	31	12442	451
						1958	67	12532	3.7	457	64	12717	449	11	12675	461
						1959	64	12399	3.7	455	63	12302	459	56	13070	478
						1960	19	9901	3.7	363	17	11665	427	18	12486	456
902800	30	54	11994	3.6	430	1954	9	12183	3.6	443	9	12394	436	7	11523	400
						1955	13	12257	3.6	446	12	11468	423	10	12595	452
						1956	11	11738	3.6	424	11	11645	433	9	12122	456
						1957	12	10515	3.5	373	11	10720	390	9	11044	401
						1958	5	11398	3.6	415	5	11520	428	1	12481	452
						1959	4	13755	3.5	473	4	13273	466	3	12924	473
902915	1	1	9060	3.4	306	1956	1	9060	3.4	306	1	11260	393	1	10028	331
903212	5	9	12315	3.6	440	1954	2	11420	3.8	424	1	8830	334			
						1955	2	10765	3.8	383	2	10635	384	2	11925	452
						1957	2	14045	3.5	481	1	13450	469			
						1958	2	15200	3.5	525	2	15380	548			
						1959	1	9860	3.6	357	1	13570	515	1	13669	488
903887	4	12	12230	3.6	442	1950	1	10700	3.7	392						
						1954	1	11890	3.5	416	1	14010	486			
						1955	2	12230	3.7	446	2	13065	460			
						1956	1	15700	3.9	614	1	12160	434	1	11674	427
						1957	3	13670	3.8	523	3	12517	457	2	13505	486
						1959	2	16040	3.6	584	2	13215	468	2	12906	461
						1960	2	12990	3.7	477	2	13170	482	2	13287	403
904220	42	71	13122	3.7	481	1955	4	13260	3.5	463	4	12828	458	3	12488	456
						1956	13	11965	3.7	439	13	11362	418	12	12505	451
						1957	13	13017	3.6	465	12	11621	431	11	12401	453
						1958	19	13695	3.6	497	18	12585	463			
						1959	20	13782	3.7	509	20	12897	471	19	13155	488
						1960	2	11790	3.8	445	2	12040	437	2	10687	393
904581	1	1	11130	4.1	451	1956	1	11130	4.1	451	1	10730	398	1	12241	463
905995	1	2	10185	3.3	331	1956	1	8260	3.3	272	1	9320	314	1	10704	366
						1957	1	12110	3.2	389						
906000	35	57	11770	3.8	446	1954	4	10035	4.1	413	4	9238	360	2	10993	411
						1955	5	10882	4.0	443	5	12188	470	4	10178	391
						1956	9	10784	3.8	406	9	10849	402	9	11102	414
						1957	10	11565	3.9	445	9	11719	423	8	11828	432
						1958	16	11691	3.8	451	15	12275	455	4	11707	428
						1959	10	13005	3.8	490	10	12621	462	9	13372	487
						1960	3	14133	4.1	565	3	10880	444	3	11983	491
906710	537	1034	13323	3.5	469	1951	6	11945	3.4	407	2	10915	419			
						1952	17	13393	3.5	471	8	12933	473			
						1953	40	12750	3.5	448	26	12057	429	17	11628	425
						1954	79	13260	3.4	455	70	12215	438	48	12238	443
						1955	99	13741	3.4	472	94	12599	452	72	12209	435
						1956	131	13558	3.5	475	126	11918	435	107	12538	460
						1957	193	13172	3.6	468	183	11615	424	171	12363	451
						1958	225	13885	3.5	490	216	12314	457	38	12679	464
						1959	197	14124	3.5	498	195	12703	467	177	13360	489
						1960	47	12587	3.5	441	47	11929	439	45	12990	474
906714	215	360	11709	3.6	424	1954	17	10786	3.5	379	17	11600	414	13	11853	428
						1955	31	13105	3.6	464	30	12627	458	24	13035	471
						1956	34	10897	3.7	402	33	11445	421	28	12250	454
						1957	63	11774	3.7	429	60	11878	436	56	12463	458
						1958	99	11591	3.7	421	96	12150	446	15	12136	440
						1959	98	12139	3.7	443	98	12779	448	85	13269	485
						1960	18	12083	3.6	438	17	11939	440	17	12743	467
907503	5	13	12555	3.6	453	1951	1	18930	3.7	706						
						1952	4	11098	3.5	392	3	12723	442			
						1953	4	13500	3.7	504	3	11730	411	3	12016	423
						1954	3	13290	3.7	492	2	11790	428	2	11914	429
						1955	1	17120	3.9	674						
910290	8	14	12185	3.6	434	1956	1	14670	3.3	488						
						1957	4	13255	3.5	459	3	12197	439			
						1958	5	10668	3.6	383	5	12748	466	1	7074	263
						1959	4	12363	3.6	448	4	11758	438	4	12290	450
910630	5	11	12369	3.8	476	1955	2	11880	3.6	429	2	12500	433	2	10998	377
						1956	2	11220	3.8	437	2	14355	508	2	11908	441
						1957	2	11075	3.7	420	2	11950	460	2	11494	455
						1958	2	14230	4.0	563	2	13565	564			
						1959	2	14075	4.0	560	1	10130	441	2	13778	585
						1960	1	13530	3.7	506	1	9680	381	1	11707	353
910702	2	4	13624	3.4	456	1954	1	11110	3.5	384	1	13210	497	1	12993	464

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																	
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.							
HOLSTEIN																							
910825	30	78	13839	3.6	4.98	1955	1	15080	3.2	480	1	11160	387		1	11292	397						
						1957	1	14580	3.3	477	1	11490	424		1	11434	420						
						1958	1	18750	3.3	624	1	5820	281										
						1950	1	14690	3.1	461													
						1951	9	13682	3.5	482	3	12443	466										
						1952	11	12429	3.6	456	4	12768	462										
						1953	11	15264	3.8	576	8	15103	571			5	14512	542					
						1954	20	14203	3.5	495	17	12702	471			14	12758	465					
						1955	10	15086	3.7	552	9	13491	528			9	13195	495					
						1956	10	12507	3.6	457	9	13187	498			8	12615	484					
910991	10	12	12167	3.8	4.60	1957	4	11520	3.7	422	3	13250	484		3	13501	487						
					1958	1	14340	4.6	658	1	15850	597											
					1959	1	11450	3.7	421	1	9930	359		1	10595	382							
911488	1	5	9536	4.0	3.75	1958	2	14120	3.6	501	2	12095	447										
						1959	8	12349	3.9	471	8	11878	471			8	13354	528					
						1960	2	11910	3.8	447	2	10165	384			2	10509	393					
912891	37	69	11620	3.5	3.99	1954	1	13380	3.7	494	1	15020	566										
						1955	1	9080	4.0	361	1	14080	514										
						1956	1	7600	4.1	308	1	12370	430			1	11674	427					
						1957	1	6710	4.1	275	1	12760	460			1	13505	486					
						1959	1	10910	4.0	439	1	13700	500			1	13254	469					
914050	5	10	11205	3.9	4.23	1951	5	10472	3.6	378	1	14200	472										
						1952	15	12482	3.5	428	6	13270	459										
						1953	14	11450	3.4	377	9	11594	426			8	11933	432					
						1954	11	11104	3.4	373	10	11681	426			8	11241	403					
						1955	8	12770	3.3	422	7	11941	433			5	11761	428					
						1956	5	11786	3.6	423	5	10592	393			4	10802	387					
						1957	4	10670	3.3	354	3	11750	439			3	11786	425					
						1958	4	12395	3.3	402	3	13167	485										
						1959	5	13830	3.6	493	3	12943	489			3	13276	497					
						915645	177	380	11935	3.6	4.30	1957	1	11420	3.5	401	1	11500	419				
												1958	4	10643	4.1	431	4	13780	515				
												1959	2	14560	3.5	504	2	14760	552			2	13625
1960	3	12103	3.5	418	3							13907	517			3	13240	488					
915811	1	2	17410	3.3	5.78	1948	4	12633	3.4	432													
						1949	29	12032	3.6	435	4	14365	512										
						1950	26	12146	3.4	416	4	13640	499										
						1951	26	12000	3.5	426	10	13357	468										
						1952	38	11951	3.6	429	20	12880	464										
						1953	46	12223	3.7	449	30	12571	457			22	12547	451					
						1954	61	12293	3.7	451	52	12293	449			40	12557	456					
						1955	41	12528	3.6	447	39	12611	451			30	12508	454					
						1956	36	11787	3.6	425	35	11867	430			29	12724	463					
						1957	33	12185	3.6	433	28	11285	409			27	11908	439					
						1958	22	12884	3.6	459	21	12599	456			5	13152	462					
						1959	17	13552	3.5	473	17	12646	466			17	13549	491					
						1960	1	11650	3.5	412	1	10930	402			1	12230	441					
						915999	5	6	13294	3.9	5.17	1958	1	14940	3.3	495	1	15850	635				
1959	1	19880	3.3	601	1							13300	534			1	15543	566					
916471	1	2	11200	3.7	4.12	1953	1	15740	4.0	636	1	18100	748										
						1954	1	13180	4.0	528	1	17500	702			1	13789	557					
						1957	1	9950	4.2	413	1	9630	373			1	9919	393					
						1958	2	15480	3.8	588	2	13930	499										
						1959	1	11100	3.7	415	1	12300	429			1	12590	446					
917518	162	300	12419	3.7	4.58	1956	1	12940	3.6	472	1	11210	389			1	14170	494					
						1957	1	9460	3.7	352	1	7680	274			1	11140	397					
918457	2	3	10723	3.8	4.04	1955	7	13659	3.7	502	7	12286	422			6	12500	462					
						1956	46	11865	3.8	443	44	11942	436			35	12885	474					
						1957	77	12124	3.7	445	76	11624	424			68	12376	454					
						1958	75	13286	3.7	492	68	12743	461			13	12691	475					
						1959	75	13152	3.7	486	74	12432	455			67	13558	493					
						1960	20	13584	3.8	505	18	11754	427			20	13081	482					
919608	16	29	12794	3.7	4.70	1957	1	11460	3.4	395	1	10840	386			1	11194	402					
						1958	1	11380	4.3	465	1	12560	448			1	11347	398					
						1959	1	8590	3.9	339	1	13060	465			1	13778	468					
919745	10	21	12783	3.5	4.44	1955	2	12755	3.8	477	2	13725	472			2	15037	458					
						1956	7	12586	3.6	455	7	13127	482			7	12400	454					
						1957	5	13056	3.7	483	5	12514	471			3	13480	496					
						1958	9	12416	3.8	473	9	11971	444			4	11985	450					
						1959	6	12972	3.8	490	6	12645	449			3	14439	516					
919746	13	27	13213	3.4	4.44	1954	4	13580	3.4	463	4	13425	471			3	12564	479					
						1955	7	13497	3.4	455	7	14039	513			7	12401	444					
						1956	5	11480	3.4	384	5	11930	444			4	12685	457					
						1957	3	12890	3.2	414	3	11717	446			3	12430	454					
						1958	2	10425	3.4	355	2	10425	373										



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						HOLSTEIN										
920632	11	20	11030	3.6	394	1953	3	12307	3.1	388	3	13570	489			
						1959	1	14770	3.8	554	1	12370	481			
						1954	1	16410	3.5	569	1	16140	562			
						1955	2	13565	3.4	463	2	12770	435	2	11925	452
						1957	1	17390	3.3	581						
						1958	9	10274	3.6	369	9	9502	377	3	7074	203
						1959	6	10930	3.7	398	6	10722	400	6	11670	429
921070	1	1	14990	3.5	497	1960	1	16490	3.5	571	1	14750	545	1	14072	523
						1960	1	14990	3.3	497	1	13270	523	1	13799	523
922243	175	290	11827	3.7	429	1952	3	11707	3.7	435	2	11715	455			
						1953	17	12475	3.6	451	17	12744	457	9	12220	445
						1954	34	11390	3.6	407	31	12100	428	25	11804	422
						1955	44	11733	3.7	428	40	11664	455	29	11675	455
						1956	41	11681	3.7	431	39	11481	428	33	12011	447
						1957	46	10925	3.7	397	41	11594	419	37	11612	455
						1958	50	12506	3.6	455	50	12499	453	11	13033	420
						1959	48	13034	3.7	476	48	12959	469	39	13239	423
						1960	5	12646	3.5	447	5	10688	357	5	12557	445
923599	6	7	11046	3.5	387	1952	1	11030	3.3	367						
						1953	1	10610	3.6	392	1	10010	375			
						1957	1	8160	3.5	288						
						1958	3	11600	3.5	408	3	12607	441			
						1959	1	13230	3.4	456	1	10600	395	1	11707	404
923749	3	10	11724	3.9	455	1954	2	11700	3.8	440	2	11575	421	2	10355	363
						1955	2	11135	4.0	443	2	11305	424	2	11293	377
						1956	2	12095	4.0	484	2	10055	341	2	11287	396
						1957	3	11935	3.9	460	3	11800	423	3	12128	456
						1958	1	11620	3.8	439	1	12270	445			
923750	2	5	8035	3.1	267	1955	1	13570	3.5	442	1	12340	444			
						1956	2	6915	3.0	204	2	10290	365	1	11674	427
924097	11	22	12466	3.5	427	1953	1	8780	4.2	365						
						1955	1	6620	3.9	257	1	7120	268	1	9374	337
						1956	1	5610	3.7	212	1	6880	268	1	7390	276
						1957	5	12756	3.4	428	5	11134	403	1	7597	232
						1958	6	12565	3.4	426	6	12450	459			
						1959	8	13450	3.4	454	8	12303	443	8	13261	478
924165	2	3	14763	3.7	540	1958	1	16460	3.9	640	1	8680	411			
						1959	2	15645	3.6	486	2	10450	414	2	11391	452
924564	1	1	6680	4.2	284	1957	1	6680	4.2	284						
924893	313	518	12400	3.6	447	1952	1	10530	3.7	390	1	12380	482			
						1953	13	13125	3.6	464	8	13685	486	6	12517	451
						1954	33	12174	3.7	444	31	12078	437	24	12152	458
						1955	50	12977	3.6	464	47	12575	456	40	12941	463
						1956	64	12770	3.6	462	63	12344	449	51	12779	464
						1957	77	11961	3.6	435	74	11449	419	61	12076	443
						1958	104	12665	3.6	454	102	12712	462	20	13121	460
						1959	141	12894	3.6	463	141	12597	454	122	13280	479
						1960	35	11831	3.5	416	33	11753	418	34	12260	444
925394	1	3	13117	3.4	442	1956	1	11420	3.3	381	1	8750	321			
						1957	1	14530	3.2	459	1	9610	353	1	11271	399
						1959	1	13600	3.6	465	1	12640	471	1	12949	485
926363	31	61	12237	3.7	450	1953	1	13250	3.7	494						
						1954	5	12674	3.7	464	5	12444	467	2	13097	479
						1955	15	13173	3.6	472	15	13162	474	12	12624	468
						1956	12	11799	3.7	426	12	12510	459	11	12749	467
						1957	10	11237	3.7	414	10	12303	455	8	12485	459
						1958	10	12287	3.6	449	10	12291	462			
						1959	5	14218	3.6	515	5	13224	494	5	13856	505
						1960	3	10193	3.8	390	3	13355	461	3	13561	476
926864	36	106	12568	3.5	443	1948	16	12319	3.5	428	2	12470	455			
						1949	25	13045	3.6	474	3	13860	535			
						1950	16	12453	3.5	445	5	13246	496			
						1951	14	12066	3.6	432	5	11694	439			
						1952	11	13135	3.0	496	4	13265	513			
						1953	8	13414	3.6	485	5	13506	521	4	12914	485
						1954	6	12435	3.4	424	5	12700	475	5	12674	473
						1955	6	13515	3.6	487	6	12575	465	3	12623	471
						1956	2	10500	3.7	387	2	10795	395	2	11740	417
						1958	1	17920	4.0	717	1	15800	624			
						1960	1	12780	3.7	476	1	15000	534	1	15216	503
928763	1	1	17680	3.3	587	1952	1	17680	3.3	587						
930692	1	1	8240	3.4	283	1959	1	8240	3.4	283	1	9260	319	1	9156	329
932377	2	2	11880	3.6	425	1956	1	7150	3.5	250	1	12400	454	1	11674	477
						1957	1	16610	3.6	600	1	15500	490	1	13505	486
933212	14	19	11227	3.7	412	1957	1	13400	3.6	481	1	13340	465			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											YEARLY HERD AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	RECORDS NO.	MILK LB.	FAT LB.						
HOLSTEIN																						
933405	19	29	10373	3.8	391	1958	6	11333	3.8	428	6	11115	422									
						1959	7	11964	3.6	438	7	12786	464	7	13089	471						
						1960	5	11090	3.6	403	5	11390	430	4	13265	484						
						1953	1	14980	3.7	555	1	13660	496	1	14312	530						
						1954	5	12418	3.8	459	4	11050	413	3	12281	458						
						1955	7	12557	3.8	481	7	12027	447	6	11634	442						
						1956	6	9885	3.7	370	5	11224	426	5	12191	447						
						1957	2	8550	4.5	372	2	11495	427	2	12612	456						
						1958	3	10007	3.9	397	3	11657	422	1	11467	432						
						1959	3	9190	4.2	389	3	12443	475	3	12473	465						
1960	2	7165	3.5	226	2	4775	147	1	13930	516												
934021	8	10	13491	3.7	492	1957	1	16940	3.5	600	1	12080	464									
						1958	2	18640	3.7	662	2	14085	572									
						1959	3	11017	3.7	401	1	12710	490	3	14235	549						
						1960	4	13860	3.6	504	3	13873	489	4	14786	532						
						1954	2	13580	3.7	489	2	15185	528	2	15320	545						
935783	6	12	11614	3.9	447	1955	5	11316	4.0	444	5	13557	501	4	14508	509						
						1956	2	11285	4.0	439	2	12650	444	1	14203	495						
						1957	1	14120	3.5	498	1	10130	395									
						1958	1	11950	4.1	491	1	12430	447									
						1959	1	15230	3.5	529	1	12760	424	1	13538	484						
937171	1	1	13950	4.0	559	1957	1	13950	4.0	559	1	12840	497									
938770	11	15	12785	3.8	481	1957	1	12060	3.3	399	1	12370	428									
						1958	5	11624	3.7	454	5	13110	487									
						1959	6	13660	3.8	518	6	11788	428	4	12906	474						
						1960	3	12137	3.6	455	3	11830	456	3	12909	474						
						1952	1	11780	3.7	438	1	14240	476									
941567	8	15	11870	3.6	423	1953	2	13185	3.5	457	1	15640	543	1	12942	443						
						1954	2	10540	3.6	377	2	11680	426	2	12873	468						
						1955	1	15550	3.4	525	1	15410	524	1	13941	486						
						1956	2	9805	3.7	333	2	13765	484	2	13762	484						
						1957	2	14885	3.5	522	2	13050	468	1	14277	500						
						1958	3	13320	3.7	493	3	12993	470									
						1959	2	13885	3.7	517	2	14365	524	2	15140	550						
						1950	1	13960	3.5	489												
						942567	31	66	11750	3.5	404	1953	3	11460	3.3	375	2	11275	373	2	12263	422
						943293	8	16	13951	3.9	536	1954	12	11587	3.5	399	11	11632	419	8	11945	437
1955	13	12338	3.4	414	13							12055	432	13	11801	423						
1956	10	12168	3.5	433	10							11417	421	9	11662	426						
1957	9	10769	3.5	379	9							10978	400	9	11217	410						
1958	10	11464	3.5	400	9							11724	439	1	12906	533						
1959	6	11165	3.4	375	6							11467	411	6	12660	452						
1960	3	12627	3.5	438	3							10700	376	3	11463	410						
1953	3	13780	3.7	508	2							12695	465	2	12541	458						
1954	3	11687	3.7	452	2							13370	490	2	13075	467						
1955	1	11840	3.5	413	1							12640	459	1	12731	446						
943749	9	12	13261	3.8	500	1956	2	13335	3.8	512	1	11140	406	1	13690	483						
						1957	4	14245	3.6	542	2	16260	584	1	15467	506						
						1958	2	14365	3.6	510												
						1959	1	13610	4.5	614	1	13460	507	1	15543	566						
						1956	5	15530	3.8	584	5	14330	544									
943799	28	39	11308	3.8	425	1959	5	11676	4.0	461	5	11874	489	5	12771	460						
						1960	2	13410	3.6	489	2	11940	447	2	12023	440						
						1957	4	11315	3.7	420	4	11228	401	1	12295	456						
944849	2	7	12468	3.5	436	1958	19	11201	3.8	420	18	12016	445	2	7074	263						
						1959	11	11956	3.8	445	11	11958	439	11	12759	463						
						1960	5	11818	3.9	459	5	11642	439	5	11981	443						
						1955	2	11605	3.6	417	1	6140	279	2	9847	366						
946403	389	709	12004	3.6	435	1956	1	14430	3.8	546				1	14145	546						
						1957	1	13816	3.6	492	1	12720	492	1	14517	547						
						1958	1	14310	3.6	510	1	10460	434									
						1959	1	12490	3.7	466	1	13190	500	1	16132	634						
						1960	1	12810	3.2	406	1	12940	452	1	12317	423						
						1954	9	12802	3.5	445	7	12668	456	7	12887	466						
947935	41	65	12210	3.9	467	1955	41	12336	3.7	450	38	12348	441	31	12367	447						
						1956	118	11584	3.7	423	114	12041	444	99	12371	456						
						1957	159	11810	3.7	431	148	11795	434	134	12405	458						
						1958	169	12631	3.6	457	161	12634	464	21	11887	445						
						1959	171	12447	3.6	453	170	12758	471	150	13396	490						
						1960	42	11651	3.7	425	39	12725	454	39	13625	473						
						1956	2	10175	4.0	399	2	11195	412	1	10693	377						
						1957	15	11908	3.8	452	13	11567	414	13	12329	443						
948770	30	52	11525	3.7	422	1958	25	12916	3.8	491	24	12588	462	5	11319	430						
						1959	18	13186	3.8	495	18	12242	450	15	13010	478						
						1960	5	11362	3.9	437	5	11590	410	4	14470	515						
						1954	3	14527	3.9	561	1	10560	443	1	12361	475						
948770	30	52	11525	3.7	422	1954	7	11547	3.7	431	7	11456	423	6	11523	421						
						1955	10	12164	3.6	441	10	11893	429	6	11189	421						
						1956	10	10556	3.6	378	9	11257	409	6	12017	431						
						1954	1	16890	3.4	369	1	13060	503									

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	8	10713	3.7	397	8	11099	404	8	11278	416
						1958	7	11684	3.9	448	7	11971	444	2	12421	460
						1959	6	12053	3.7	442	6	13095	477	5	13187	486
949041	1	1	14490	3.7	536	1956	1	14490	3.7	538	1	16370	590	1	14889	524
949156	4	12	10872	3.6	390	1954	1	12280	3.9	473	1	12490	437			
						1955	2	9685	3.9	377	2	12720	451			
						1956	2	9965	3.4	359	2	11515	398	1	11674	427
						1957	3	11077	3.8	414	3	13130	470	2	12388	443
						1958	2	9940	3.8	378	2	11415	439			
						1959	2	10930	3.0	414	2	12750	477	2	12933	467
949159	26	32	12518	3.4	425	1957	1	9410	3.5	326	1	11210	381	1	11391	408
						1958	12	11458	3.4	389	7	11426	409	5	11268	412
						1959	16	12700	3.4	458	16	11903	434	16	12648	458
						1960	3	16383	3.4	554	3	14593	541	3	14014	516
949766	1	1	17750	3.9	686	1959	1	17750	3.9	686	1	14150	500	1	16623	613
950648	1	2	10215	3.7	381	1959	1	11580	3.7	430	1	13620	481	1	13656	486
						1960	1	8650	3.7	352	1	15530	568	1	15456	564
950707	4	6	10329	3.8	393	1958	2	12260	4.0	494	2	11345	437			
						1959	3	9880	3.9	388	3	10767	406	3	11579	440
						1960	1	9160	3.8	345	1	11090	397	1	11042	391
950725	3	5	12461	3.5	439	1958	1	10660	3.6	386	1	10790	384			
						1959	1	10670	3.5	372	1	5650	198	1	9156	379
						1960	3	11657	3.5	407	3	10003	370	3	10747	383
952029	19	22	13421	3.7	494	1958	5	13346	3.5	469	5	13866	511	1	11543	412
						1959	15	13559	3.8	507	15	13265	493	14	13536	515
						1960	2	14355	3.7	519	2	14905	569	2	13931	541
954461	23	43	11923	3.8	456	1955	2	11925	3.8	451	2	12905	500	2	12355	476
						1956	7	11957	3.9	455	7	12149	452	7	13294	493
						1957	13	11735	3.8	443	12	11850	437	11	11754	437
						1958	13	12075	3.8	460	13	13115	482			
						1959	7	12979	3.9	503	7	13001	471	7	14239	522
						1960	1	13290	3.4	452	1	11710	422	1	11456	425
954675	441	685	13459	3.6	481	1954	1	12200	3.1	383	1	15600	537	1	15206	532
						1955	11	12094	3.7	441	10	12715	452	10	12908	453
						1956	38	13028	3.6	470	36	11508	423	28	12436	451
						1957	77	12241	3.6	438	74	11677	429	65	12094	441
						1958	201	13664	3.6	494	185	12682	464	31	13074	480
						1959	278	13914	3.6	497	275	12761	476	251	13386	489
						1960	79	13508	3.6	488	77	12115	444	77	12953	479
954932	3	14	12732	4.0	502	1950	1	14000	4.3	605						
						1951	1	14280	4.3	615	1	16090	535			
						1952	4	12500	4.0	502	3	14007	499			
						1953	1	8780	4.4	389	1	9950	357	1	17516	653
						1954	2	14585	4.4	633	2	13520	481	2	11745	436
						1955	2	11595	4.0	458	2	11665	433	2	11342	411
						1956	1	14640	4.1	602	1	11890	435			
						1957	1	11050	3.7	413	1	13720	499	1	13222	474
						1958	1	15750	3.0	564	1	14420	612			
955493	98	148	12024	3.7	442	1953	1	16270	4.2	677	1	10080	373	1	10846	433
						1954	1	12970	3.7	485	1	14260	481	1	13294	475
						1955	5	10052	3.8	413	5	11320	415	4	10072	376
						1956	14	10920	3.8	409	14	12474	445	12	12571	456
						1957	29	11882	3.7	439	25	12645	466	24	12517	460
						1958	42	12720	3.7	464	42	12069	448	12	11826	445
						1959	49	11943	3.7	437	48	12510	455	45	13150	477
						1960	7	11423	3.7	420	6	11477	440	6	12183	459
955524	1	2	11015	3.3	362	1957	1	11670	3.4	393	1	10430	362	1	11859	433
						1958	1	10360	3.2	331	1	14690	549			
955534	10	16	12608	3.5	434	1956	2	11425	3.5	431	2	12875	460	2	11396	422
						1957	5	10998	3.5	378	4	11920	428	4	12037	440
						1958	3	12463	3.1	393	3	11630	415			
						1959	4	13523	3.4	462	4	13490	514	3	14199	518
						1960	2	13620	3.7	503	2	12275	436	1	15271	544
956714	360	495	12341	3.9	474	1956	5	9360	3.9	366	5	10590	384	3	11536	426
						1957	53	11101	4.0	439	53	11709	432	45	11842	437
						1958	122	12682	3.9	485	117	12651	460	117	13098	477
						1959	232	12568	3.9	487	232	12663	465	205	13337	470
						1960	83	12547	3.8	470	79	12566	450	80	13336	488
959486	1	3	11853	4.2	495	1958	1	12100	4.2	514	1	10950	405			
						1959	1	11796	4.3	503	1	11450	430	1	11602	449
						1960	1	11670	4.0	468	1	12100	377	1	11674	456
960811	22	40	11576	3.5	398	1956	6	11703	3.5	413	6	11098	424	6	13402	502
						1957	9	11892	3.6	424	9	10802	386	6	12530	446
						1958	11	12250	3.4	427	11	12644	446	7	13560	504
						1959	11	11322	3.5	393	11	12879	461	10	13667	470

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1960	3	11110	3.5	389	3	13113	465		3	13963	504
962404	1	1	13230	3.5	464	1953	1	13230	3.5	464	1	9380	459				
963965	2	4	14177	3.2	450	1958	2	14515	3.2	468	2	16990	597				
						1959	1	16760	3.3	560	1	14630	794	1	16688	528	
						1960	1	14050	3.2	454	1	9540	335	1	14584	517	
965039	1	1	9610	3.7	353	1955	1	9610	3.7	353	1	9660	341	1	8927	314	
966362	22	45	11624	3.6	415	1954	1	12840	3.2	412	1	12360	465	1	11936	463	
						1955	9	12359	3.5	424	9	12252	442	7	10959	395	
						1956	10	10963	3.6	392	10	11237	429	8	11634	435	
						1957	7	12893	3.5	460	5	10396	397	4	12276	459	
						1958	2	11351	3.6	410	7	12021	444				
						1959	7	12313	3.7	459	7	13271	504	6	13313	499	
						1960	2	11960	3.4	405	2	11680	429	2	11909	437	
966470	1	1	11210	3.4	385	1956	1	11210	3.4	385	1	12310	468	1	15674	530	
966471	176	334	12267	3.7	453	1953	14	13588	3.7	493	13	12075	431	11	11911	426	
						1954	36	12968	3.6	465	35	12313	435	24	12276	432	
						1955	44	12624	3.7	470	43	11944	432	33	11751	417	
						1956	63	11669	3.8	439	60	11665	420	50	12134	441	
						1957	70	11953	3.7	441	63	11498	412	54	12265	444	
						1958	50	12735	3.7	468	48	12508	461	5	11879	429	
						1959	47	12639	3.7	464	47	11992	432	39	12766	464	
						1960	10	13096	3.7	486	10	11564	410	8	13358	479	
966473	42	87	11935	3.6	429	1953	6	12693	3.6	452	6	12173	428	4	13685	498	
						1954	20	12243	3.7	448	20	11902	431	18	11877	433	
						1955	19	12769	3.6	453	17	12202	432	16	11904	434	
						1956	19	11865	3.6	425	19	11502	422	17	12296	439	
						1957	11	11365	3.6	411	10	11977	437	7	12414	459	
						1958	6	12297	3.6	445	6	12230	441	1	10791	327	
						1959	5	11296	3.3	374	5	11966	428	5	12884	454	
						1960	1	11350	4.0	456	1	13510	474	1	14028	513	
967696	1	2	7855	3.8	293	1957	1	5720	4.0	230	1	10110	360	1	11859	433	
						1958	1	9990	3.5	355	1	13370	482				
967873	52	70	13395	3.7	495	1957	8	12453	3.6	441	6	11600	434	8	12223	452	
						1958	19	14041	3.7	526	17	11927	458	3	12670	461	
						1959	35	13293	3.6	494	35	11965	449	33	12658	471	
						1960	8	13450	3.9	508	8	12425	475	8	12095	426	
968544	32	55	10456	3.9	405	1955	4	13185	3.8	489	4	13575	491	4	12936	468	
						1956	9	9753	3.8	376	9	11936	424	8	12711	451	
						1957	16	10124	3.8	390	13	11262	406	10	12157	444	
						1958	17	11044	4.0	435	17	12369	464				
						1959	8	11189	3.9	435	8	12155	452	8	12595	468	
						1960	1	3460	4.1	143	1	10970	430	1	13069	496	
968786	11	18	13262	3.8	502	1957	1	12220	3.6	462	1	11410	412				
						1958	7	13330	3.8	501	7	11070	454				
						1959	6	13207	3.7	491	6	12378	459	6	12544	463	
						1960	4	13525	3.7	505	4	11140	422	4	11898	452	
969667	48	71	12843	3.8	487	1954	1	14730	3.4	502	1	14040	479	1	13298	475	
						1955	1	10970	4.0	436	1	12320	450	1	13298	472	
						1956	11	12398	3.7	464	11	11752	435	8	12677	475	
						1957	11	13503	3.8	520	10	12226	451	9	12552	462	
						1958	20	13619	3.8	532	18	13079	488	5	12103	456	
						1959	22	12345	3.9	474	22	12530	464	22	13331	491	
						1960	5	12490	3.4	430	5	12664	467	4	13715	504	
969669	32	43	12280	3.7	448	1955	1	13060	3.7	480	1	13990	465	1	12339	445	
						1956	2	11870	3.8	455	2	13470	501	2	13538	510	
						1957	3	13467	3.6	483	3	14840	534	3	13600	495	
						1958	8	11891	3.7	440	8	12608	463	2	12094	449	
						1959	22	12717	3.7	464	21	13064	480	19	13310	480	
						1960	7	10341	3.6	371	7	11641	438	7	12327	444	
970859	46	83	12141	3.6	433	1955	4	12620	3.3	412	4	12203	420	1	15020	524	
						1956	14	11725	3.6	417	10	12457	445	10	13065	487	
						1957	24	10276	3.6	369	22	11472	412	20	12239	447	
						1958	21	12652	3.7	473	20	12453	459	3	12262	457	
						1959	17	13094	3.6	472	17	12076	440	14	13560	488	
						1960	3	11863	3.6	416	3	11277	393	3	11761	423	
972712	1	1	9600	3.6	350	1956	1	9600	3.6	350	1	10780	415	1	13211	522	
975137	52	95	12864	3.7	472	1955	2	13190	3.6	470	1	12940	465				
						1956	11	13531	3.6	492	10	12568	474				
						1957	22	11525	3.8	429	22	12053	455	9	13092	481	
						1958	25	13282	3.7	466	25	12171	466	1	11543	412	
						1959	30	14052	3.7	522	30	12640	475	28	13244	502	
						1960	5	10660	3.5	357	5	13168	468	5	12620	457	
975683	40	61	12051	3.6	439	1955	3	10253	3.4	355	3	11500	407	1	12219	461	
						1956	7	12580	3.6	446	7	11566	430	7	12007	443	
						1957	6	12728	3.8	466	6	12193	465	6	13046	490	

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.		
							HOLSTEIN											
						1958	18	11842	3.7	439	18	12522	464		9	12818	478	
						1959	20	12842	3.7	470	20	12644	462		19	13043	473	
						1960	6	10993	3.7	397	5	11723	426		6	12722	463	
975892	5	5	14610	3.9	568	1959	5	14610	3.9	568	5	14662	556		5	15046	565	
976710	5	5	13902	3.7	514	1957	1	10110	3.7	374	1	12160	444					
						1959	2	14995	3.9	584	2	16070	623		2	15107	576	
						1960	2	14705	3.5	515	2	16070	623		2	15086	579	
976801	5	6	12747	3.7	474	1954	1	11920	3.6	424	1	13080	456		1	12372	449	
						1955	1	10690	3.5	379	1	11560	401		1	11194	395	
						1958	2	13550	3.4	452	1	12810	462					
						1959	2	12665	4.2	533	2	11350	427		2	13091	491	
978750	58	73	12335	3.7	461	1955	1	10520	3.8	396	1	12640	465		1	12339	445	
						1956	6	10220	3.8	391	6	12098	445		5	12714	454	
						1957	11	10931	3.9	429	9	12460	465		6	11572	428	
						1958	28	12433	3.7	458	27	12470	462		7	12105	453	
						1959	24	13231	3.7	492	24	12539	464		22	13110	473	
						1960	3	13617	3.5	464	3	13363	452		3	13138	461	
980008	8	12	11949	3.5	416	1958	7	12500	3.5	432	7	11680	432					
						1959	5	12303	3.6	438	5	11093	418		3	11547	433	
						1960	2	12565	3.4	416	2	11425	424		2	12067	446	
980066	38	82	12068	3.7	438	1953	8	11865	3.7	436	7	13411	495		6	11369	438	
						1954	16	11336	3.7	416	16	11519	416		12	10401	398	
						1955	16	12789	3.6	467	16	12119	444		12	11016	416	
						1956	18	12479	3.6	454	18	11185	404		15	12038	445	
						1957	9	10813	3.7	396	9	10641	381		9	11204	406	
						1958	6	12200	3.7	441	5	11602	424					
						1959	9	12990	3.7	473	9	12602	467		7	13125	474	
981308	18	23	11851	3.9	456	1955	1	10670	4.0	422	1	11650	449		1	10922	428	
						1956	1	11720	3.8	448	1	14820	554		1	11848	459	
						1957	2	10455	4.0	421	1	12490	469		1	11848	433	
						1958	5	11866	3.8	457	5	12704	487					
						1959	13	12118	3.8	463	13	12408	460		13	13537	503	
						1960	1	6560	3.6	234	1	11560	410		1	11042	391	
981361	280	343	12853	3.7	472	1957	2	11485	3.4	387	2	13295	461		2	13843	479	
						1958	69	12955	3.7	477	66	12680	466		7	12812	453	
						1959	223	13258	3.7	489	218	12798	469		197	13477	473	
						1960	48	11228	3.6	401	43	11628	417		47	12595	454	
						1961	1	8070	3.5	284								
982292	1	1	10250	3.5	358	1954	1	10250	3.5	358	1	11020	435		1	11162	460	
984717	1	1	10110	3.9	394	1959	1	10110	3.9	394	1	11670	454		1	14017	555	
984799	76	98	12575	3.8	474	1957	5	11620	3.7	431	4	13390	504		3	14007	520	
						1958	26	15080	3.8	499	25	12407	466		2	14999	550	
						1959	59	12876	3.8	484	59	12934	484		55	13201	494	
						1960	8	11786	3.7	433	8	12921	467		6	12126	448	
988993	1	1	12920	3.7	474	1958	1	12920	3.7	474	1	10110	378					
990559	3	7	12591	3.3	425	1954	1	12530	3.6	449	1	10810	395					
						1955	1	11070	3.7	405	1	11590	425					
						1956	1	13810	3.4	470	1	11510	406		1	12546	451	
						1957	2	14615	3.3	470	2	12640	450		2	13228	445	
						1959	1	14740	3.4	497	1	12650	431		1	12579	432	
						1960	1	13120	3.6	470	1	13500	503		1	13690	492	
991740	30	52	12357	3.7	456	1956	3	13077	3.6	464	3	11470	405		2	11178	396	
						1957	18	11692	3.6	426	17	11504	424		13	12481	449	
						1958	13	12599	3.7	473	12	11775	440					
						1959	13	12958	3.6	467	13	12530	454		11	13256	486	
						1960	5	11198	3.8	425	5	11974	434		5	11849	435	
991741	7	7	13614	3.5	473	1956	2	15530	3.4	519	2	12010	448		1	11587	451	
						1959	5	12848	3.6	454	5	9292	344		2	11652	407	
992370	1	1	14690	3.6	525	1957	1	14690	3.6	525	1	11510	417		1	13527	493	
992858	1	1	14860	3.8	558	1960	1	14860	3.8	558	1	12640	468		1	15505	464	
993753	38	65	11332	3.9	437	1956	6	11615	4.2	479	6	11175	440		5	11961	471	
						1957	15	10867	3.9	420	13	11532	425		12	12502	468	
						1958	19	11987	3.9	463	19	12250	458		3	11620	444	
						1959	20	11605	3.9	446	20	12195	460		16	13271	493	
						1960	5	13364	4.0	540	5	13844	509		5	13039	485	
993764	39	63	11731	3.6	419	1956	3	13100	3.5	457	3	12630	467		3	13734	489	
						1957	6	14283	3.7	527	6	12710	490		5	13982	556	
						1958	23	11913	3.6	431	22	12258	466		1	11543	412	
						1959	28	12422	3.6	445	26	12644	470		24	13419	498	
						1960	3	10940	3.6	399	3	13067	466		3	12470	469	
994250	126	201	12386	3.7	452	1955	6	13408	3.7	500	6	12450	453		4	12665	460	
						1956	21	11660	3.8	442	20	12233	444		16	12628	479	
						1957	25	11486	3.7	423	25	11727	426		23	12071	441	
						1958	47	12489	3.7	466	45	11958	437		10	11949	437	



TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	AV. RECORDS NO.	YEARLY HERD RECORDS NO.	MILK LB.	AVERAGE FAT LB.
HOLSTEIN																	
997481	36	56	12226	3.6	440	1959	37	12729	3.6	462	87	12647	462	80	13509	487	
						1960	15	12385	3.6	450	15	11949	424	14	13441	484	
						1955	1	13540	3.5	473	1	12250	468	1	11903	452	
						1956	2	13450	3.4	459	2	13700	490	1	12644	480	
						1957	12	11720	3.6	420	12	12041	443	11	12653	457	
998194	1	1	10290	3.9	404	1958	19	12632	3.6	454	19	11695	433	4	12121	451	
						1959	19	12413	3.6	445	16	12279	454	17	12844	468	
						1960	3	13433	3.5	469	3	12340	456	3	12219	456	
						1957	1	10290	3.9	404	1	8350	308	1	16311	375	
						1960	1	13930	3.8	535	1	13400	545	1	11837	423	
999907	125	192	10328	3.6	373	1955	7	10017	3.7	368	6	12190	442	5	13651	466	
						1956	27	10231	3.7	374	25	10750	393	20	11773	449	
						1957	51	9316	3.6	334	51	11417	418	47	11364	419	
						1958	54	11366	3.6	414	53	12455	459	13	12174	449	
						1959	43	12243	3.7	447	42	12785	461	36	13340	487	
1000156	11	20	12232	3.9	471	1960	10	11138	3.5	389	10	10685	390	9	12596	468	
						1956	1	11910	3.5	422	1	10190	395	1	16824	429	
						1957	4	11615	3.9	450	4	11720	429	3	11172	424	
						1958	6	12827	3.9	493	6	11393	444	2	16753	388	
						1959	6	12610	3.6	473	6	12430	492	8	12829	469	
1000390	29	34	13046	3.8	498	1960	1	8060	3.3	294	1	9630	333				
						1957	1	14340	4.0	575	1	11550	465	1	10562	456	
						1958	6	14165	3.9	549	3	13636	523				
						1959	24	12934	3.8	492	24	12032	451	23	13021	494	
						1960	3	16830	3.9	417	3	10193	372	3	10980	410	
1001512	21	31	11349	3.8	423	1957	3	10087	3.7	375	2	10560	396	1	11107	378	
						1958	11	10699	3.8	404	6	12783	458	3	10297	333	
						1959	14	12512	3.8	468	14	12776	476	13	13516	487	
						1960	3	10567	4.0	419	3	10907	414	3	12680	465	
						1957	1	5190	3.9	200							
1001748	11	11	12418	3.6	443	1958	1	13070	3.4	447	1	11690	425				
						1959	7	12439	3.6	447	7	12309	450	6	12851	466	
						1960	3	12153	3.7	449	3	12200	486	3	14297	523	
						1955	7	13797	3.6	515	7	13503	493	6	14156	494	
						1956	6	11927	3.9	455	6	12730	454	6	13227	476	
1003598	29	49	13203	3.7	489	1957	9	11632	3.8	446	6	12570	451	6	12922	465	
						1958	6	12646	3.8	489	6	11460	431				
						1959	17	13386	3.8	499	17	12939	400	17	13267	468	
						1960	2	15740	3.6	564	2	14650	521	2	14007	504	
						1955	7	13797	3.6	515	7	13503	493	6	14156	494	
1004144	9	19	12031	3.6	431	1956	6	11927	3.9	455	6	12730	454	6	13227	476	
						1957	9	11632	3.8	446	6	12570	451	6	12922	465	
						1958	6	12646	3.8	489	6	11460	431				
						1959	17	13386	3.8	499	17	12939	400	17	13267	468	
						1960	2	15740	3.6	564	2	14650	521	2	14007	504	
1004232	74	98	12650	3.8	480	1951	1	14670	3.3	490	1	13530	483				
						1952	1	14410	3.4	486	1	14970	541				
						1953	1	13800	3.5	484	1	13690	522				
						1954	1	16410	3.4	551	1	14130	534				
						1955	2	11095	3.7	393	2	11635	400	2	11925	452	
1005475	14	26	10493	4.0	417	1956	1	7210	4.0	266	1	8540	314	1	7390	276	
						1957	1	7880	4.0	316	1	9040	323	1	7597	212	
						1958	2	8690	3.6	314	2	8240	317	1	7074	263	
						1959	6	11698	3.6	422	6	12645	442	6	12134	437	
						1960	3	14330	3.6	318	3	12467	473	3	12513	458	
1005476	82	106	12230	3.8	461	1956	3	11620	4.0	453	3	13637	505	3	12562	451	
						1957	13	11408	3.8	436	11	11759	445	8	12798	452	
						1958	27	13121	3.6	497	25	12013	456	2	11287	455	
						1959	41	12980	3.6	497	40	12561	477	39	12981	492	
						1960	14	12832	3.7	476	13	12197	467	14	12649	483	
1005475	14	26	10493	4.0	417	1956	5	11194	4.1	456	5	12336	454	3	12731	471	
						1957	5	8558	4.0	338	4	12070	453	2	13676	516	
						1958	8	11173	4.1	461	8	13076	479	3	12834	480	
						1959	6	11725	4.1	473	6	12507	482	6	13216	484	
						1960	2	8625	3.9	331	2	8635	311	2	11004	388	
1005476	82	106	12230	3.8	461	1956	2	7050	4.0	291	2	9900	416				
						1957	2	9225	3.6	308	2	11440	409	1	12066	446	
						1958	34	12190	3.8	457	32	12467	473	3	12121	495	
						1959	57	12564	3.8	476	57	12466	463	46	12835	476	
						1960	11	12085	3.6	441	9	13044	474	11	13236	466	
1005575	33	54	12762	3.7	469	1957	10	12900	3.7	474	10	12668	462	8	13238	487	
						1958	21	12965	3.7	483	21	12655	489	1	11500	443	
						1959	19	13002	3.6	472	19	12679	456	19	12062	433	
						1960	4	13083	3.7	463	4	11463	460	4	11644	457	
						1959	2	11100	3.5	384	2	13120	488	2	15964	556	
1006622	53	86	12859	3.8	480	1956	8	11640	3.7	428	8	12069	443	8	13041	479	
						1957	19	11263	3.9	436	17	11463	430	17	11911	454	
						1958	25	12924	3.6	475	25	12663	461				
						1959	27	13277	3.6	504	26	13065	494	25	13768	517	
						1960	7	13279	3.6	503	6	12493	481	7	13142	495	
1009615	1	1	4690	4.1	192	1958	1	4690	4.1	192	1	13580	498				

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HAVERAGE MILK LB.	HAVERAGE FAT LB.
HOLSTEIN																
1009709	274	372	12295	3.6	438	1955	5	11212	3.7	413	5	11550	406	3	12564	440
						1956	28	11935	3.6	426	27	11793	427	25	12763	471
						1957	45	12212	3.5	432	44	11360	413	34	12566	457
						1958	85	12431	3.6	448	83	12251	448	11	11840	441
						1959	171	12801	3.6	456	171	12169	446	156	12941	477
						1960	36	12116	3.4	419	35	11931	438	35	12864	471
1010927	1	1	11410	3.9	448	1959	1	11410	3.9	448	1	13560	501	1	12938	484
1012593	36	45	12555	3.7	456	1957	1	12520	3.7	465	1	13510	471	1	14105	517
						1958	11	13424	3.7	494	11	12964	479			
						1959	30	12781	3.7	466	28	12497	472	28	13332	495
						1960	3	5693	3.6	268	2	9550	395	3	10679	418
1013415	12	13	12591	3.7	465	1958	1	13880	3.5	485	1	13220	472			
						1959	10	12415	3.6	464	9	13724	498	8	13963	512
						1960	2	12520	3.6	452	2	11775	398	2	11162	374
1013418	16	18	11717	3.6	426	1958	4	13308	3.8	502	4	11783	441			
						1959	13	11692	3.6	425	13	12150	443	13	12878	469
						1960	1	11470	3.8	432	1	9446	350	1	10760	367
1013716	2	5	11564	3.8	441	1953	1	12410	3.6	453						
						1954	1	9650	3.4	332						
						1955	1	10180	3.9	393	1	9730	368			
						1956	1	8630	3.7	323	1	9390	336	1	11314	425
						1959	1	12916	3.9	506	1	12630	467			
1013718	11	11	12851	3.5	443	1959	4	13666	3.4	463	4	11605	419	3	12691	457
						1960	7	12364	3.5	432	7	11099	411	7	11596	421
1014925	1	1	14320	3.6	522	1959	1	14320	3.6	522	1	13660	490	1	13254	489
1015348	1	1	16180	3.8	622	1959	1	16180	3.8	622	1	12560	468	1	11739	422
1015792	1	2	11625	3.6	407	1955	1	12080	3.3	393	1	15450	517	1	13941	483
						1957	1	11170	3.8	420	1	14660	532	1	14301	491
1017879	46	59	12454	3.7	452	1957	3	8143	3.9	300	3	12457	444	3	13000	464
						1958	15	12930	3.6	468	13	13502	482	1	13265	477
						1959	30	12250	3.7	447	29	12304	449	27	12832	469
						1960	11	13905	3.7	497	11	12109	460	11	12373	465
1018315	1	1	14930	3.3	488	1959	1	14930	3.3	488						
1018772	156	271	11754	3.6	427	1952	13	13373	3.6	484	4	13715	497			
						1953	21	10659	3.8	406	10	11434	444	7	12632	451
						1954	38	11419	3.7	419	36	11921	424	26	11621	429
						1955	35	12077	3.6	439	34	12158	440	31	12665	437
						1956	44	11695	3.7	427	43	11491	422	37	12006	439
						1957	42	11010	3.7	403	36	11562	415	34	11857	431
						1958	37	12268	3.6	443	36	11664	439	7	12526	469
						1959	35	12332	3.6	446	35	12299	443	25	12637	457
						1960	6	11662	3.5	419	6	12562	451	5	11818	430
1020277	35	60	12281	3.8	462	1956	7	12423	3.8	473	7	12169	449	7	13211	480
						1957	17	11352	3.8	434	17	11413	432	12	12398	476
						1958	18	12707	3.8	480	16	12166	450	1	9788	354
						1959	14	13119	3.7	493	13	12918	477	14	13443	497
						1960	4	12245	3.6	447	4	13255	485	4	12958	461
1020972	10	13	13469	3.8	513	1958	3	14790	3.9	568	3	13923	528	1	12906	533
						1959	9	13687	3.8	518	9	12470	451	8	13154	478
						1960	1	11590	3.9	456	1	11180	426	1	11685	444
1021571	11	11	10303	3.7	383	1959	7	10096	3.6	368	7	12717	460	6	12893	470
						1960	4	10665	3.8	408	3	11087	423	3	11739	444
1022095	10	10	12604	3.8	465	1959	6	12775	3.8	490	6	11935	453	6	12951	486
						1960	4	12348	3.9	478	3	12523	475	4	13657	521
1023004	4	5	13723	3.5	477	1953	2	15890	3.2	513						
						1954	1	14630	3.1	460						
						1958	1	10170	3.9	395	1	13150	473			
						1959	1	13570	3.8	511	1	8620	432	1	9287	431
1023039	6	8	10799	3.6	382	1958	5	11114	3.6	401	5	11164	408			
						1959	3	10487	3.5	371	3	11307	411	3	12346	458
1023558	218	288	11840	3.7	431	1956	2	13900	3.6	518	2	12395	470	2	14269	529
						1957	20	12497	3.6	442	18	12613	461	15	13194	462
						1958	72	12124	3.6	439	67	12103	447	16	12096	450
						1959	156	11865	3.7	433	156	12574	461	140	13106	479
						1960	38	12342	3.7	452	37	12491	460	38	13662	485
1023967	1	1	9990	3.6	360	1955	1	9990	3.6	360	1	12190	395			
1024453	9	11	13704	3.6	500	1958	4	13800	3.6	506	4	14308	513			
						1959	7	14257	3.7	524	7	12951	471	5	13706	492
1025361	1	1	14330	3.4	484	1958	1	14330	3.4	484	1	14960	534			
1026115	2	2	10090	4.2	426	1959	1	13610	4.5	590	1	15360	592	1	15107	576

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						1960	1	6570	4.0	261	1	10950	424		1	12372	470
1026806	1	1	7740	3.6	276	1955	1	7740	3.6	276	1	8070	283				
1028260	3	3	12083	4.2	502	1959	3	12083	4.2	502	3	15057	613	3	15925	590	
1028664	2	2	15745	3.7	575	1959	2	15745	3.7	575	2	13255	483				
1028963	2	3	12518	4.0	496	1955	1	15960	3.9	628		15400	521	1	13941	488	
						1956	1	12910	3.7	482	1	13810	474	1	15816	543	
						1959	1	10600	4.1	436	1	11370	412				
1029659	883	1261	13173	3.7	480	1955	5	13422	3.8	508	5	13216	478	3	12529	457	
						1956	66	12267	3.7	454	62	11575	428	48	12824	475	
						1957	126	12166	3.6	440	122	11703	430	104	12196	448	
						1958	340	13355	3.6	485	325	12704	466	48	12487	466	
						1959	580	13691	3.7	498	578	12853	471	520	13456	492	
						1960	143	13143	3.7	478	134	12015	440	139	13058	480	
						1961	1	12850	4.1	522							
1030404	5	6	13617	3.4	457	1959	5	14118	3.4	474	5	13228	490	5	12814	463	
						1960	1	6840	3.8	261	1	3620	132	1	5657	242	
1032144	252	356	11802	3.7	431	1956	29	11318	3.6	411	27	11763	429	27	12755	463	
						1957	46	11117	3.6	398	41	12021	436	36	12288	445	
						1958	97	11883	3.6	430	94	12164	448	16	12823	472	
						1959	155	12246	3.7	451	152	12538	462	140	13000	479	
						1960	29	11319	3.5	400	23	12385	449	29	12966	473	
1032358	1	1	17590	3.1	551	1957	1	17590	3.1	551	1	17350	653	1	15467	586	
1032383	2	6	8258	3.7	300	1955	1	12500	4.0	494	1	12010	438	1	13298	492	
						1956	1	11770	3.6	429	1	9690	359				
						1958	2	9140	3.6	327	2	9070	372				
						1959	1	10720	3.5	376	1	13040	458	1	13124	474	
						1960	1	10310	3.3	342	1	9630	364	1	11630	443	
1032435	240	329	12245	3.6	442	1955	3	11937	3.6	432	3	12873	477	2	12617	464	
						1956	14	10807	3.7	399	13	11998	448	11	12517	467	
						1957	36	11966	3.6	426	33	11785	428	30	12672	466	
						1958	99	12937	3.6	466	96	12438	459	7	12591	467	
						1959	143	12680	3.6	457	141	12336	455	129	12667	472	
						1960	34	11650	3.6	415	30	11129	406	29	13248	482	
1032617	5	7	13314	3.8	510	1958	1	10540	3.7	395	1	11350	417				
						1959	3	12480	3.8	472	3	10243	396	3	10072	396	
						1960	3	12883	3.9	504	3	10610	401	3	12364	451	
1033032	29	35	13070	3.9	501	1957	4	11895	4.1	477	4	12325	476	3	11725	459	
						1958	6	11838	3.9	458	6	12592	487				
						1959	15	13658	3.8	512	15	12541	481	14	13802	527	
						1960	10	13156	4.0	510	10	12921	474	10	14063	524	
1033088	7	12	11496	3.7	423	1957	2	11425	3.8	432	2	12085	433				
						1958	5	11428	3.5	407	4	11778	421	1	7674	263	
						1959	5	11412	3.7	431	4	12160	446	4	12764	453	
1033260	9	14	13398	3.7	496	1958	6	13783	3.8	516	6	12405	441				
						1959	7	13276	3.6	475	7	12740	464	7	13963	491	
						1960	1	15870	3.9	626	1	12240	488	1	13211	469	
1033472	3	3	6070	4.0	256	1956	1	6560	3.6	248	1	11130	412				
						1958	2	5825	4.1	260	2	9635	351				
1033908	35	41	13101	3.7	484	1958	6	12868	3.6	458	5	12782	483				
						1959	30	13116	3.7	485	30	12664	471	30	13181	491	
						1960	5	12596	3.8	484	3	13300	499	5	13337	515	
1033326	40	79	11292	3.7	419	1954	1	14950	3.5	519	1	13680	508				
						1955	5	11694	3.7	425	5	12140	434	3	13280	472	
						1956	14	10339	3.7	377	14	11430	414	13	11960	435	
						1957	21	11010	3.6	419	20	10837	396	17	12080	447	
						1958	20	13240	3.8	503	20	11708	435	2	11483	414	
						1959	16	12910	3.8	483	16	12669	465	14	13126	480	
						1960	2	11405	4.1	462	2	11950	442	2	12551	483	
1033430	2	4	10379	3.6	364	1957	1	11670	3.4	392	1	10436	362	1	11859	433	
						1958	1	12660	3.6	453	1	13130	473				
						1959	1	11150	3.9	432	1	12220	496	1	12939	484	
						1960	1	3450	3.5	120	1	11980	424	1	13385	505	
1033454	4	4	10348	3.5	370	1959	3	10573	3.7	396	3	11617	438	3	12655	482	
						1960	1	9670	3.0	291	1	7700	259	1	7695	267	
1033850	3	4	11348	3.8	427	1955	1	13520	3.7	506	1	11530	440	1	9712	366	
						1956	1	14430	3.8	550	1	12850	530	1	11619	424	
						1958	1	12340	3.6	447	1	12420	448				
						1960	1	7730	4.0	306	1	12590	467	1	11837	441	
1033889	1	1	4980	4.0	200	1957	1	4980	4.0	200	1	9600	361				
1038494	9	16	11503	3.7	425	1953	2	11630	4.1	475							
						1954	2	9065	3.7	343	1	8140	279				
						1955	1	8710	3.7	324	1	7870	287	1	9374	337	
						1958	5	12362	3.6	447	4	11925	426	1	7074	263	
						1959	5	11522	3.6	412	5	11836	431	5	12840	458	
						1960	1	10890	3.5	384	1	12150	446	1	11990	436	

TABLE 15.--DAUGHTER-AVERAGE OF SIKLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD AVERAGE RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
1038627	5	6	12698	3.8	486	1958	2	12765	3.8	480	1	12820	471			
						1959	2	14595	3.9	566	2	12400	456	2	13446	484
						1960	2	11570	3.9	441	2	10770	369	2	10742	394
1039454	190	298	12245	3.6	437	1954	2	11490	3.5	380	2	9670	357	2	10666	400
						1955	1	12440	3.7	457	1	11750	424	1	10431	378
						1956	18	12437	3.6	451	17	12039	439	13	12319	465
						1957	57	11396	3.6	407	52	11668	423	51	12468	457
						1958	77	12596	3.6	452	75	11537	436	9	13093	468
						1959	116	12737	3.6	455	113	12406	455	99	13094	479
						1960	27	11964	3.6	425	26	12597	465	26	13140	486
1039565	3	3	13943	3.4	488	1957	1	10300	3.4	350	1	14430	509			
						1958	1	19760	3.8	746	1	15670	561	1	15445	569
						1959	1	11770	3.1	368	1	6360	336	1	9756	393
1041846	1	2	12060	3.2	386	1958	1	13330	3.2	426	1	11760	425			
						1959	1	10790	3.2	346	1	12120	414	1	15535	537
1044056	36	42	11752	3.8	443	1957	4	12815	3.6	460	3	11710	415	2	11576	430
						1958	8	11150	3.8	421	8	11284	414	2	12508	460
						1959	25	11965	3.8	455	24	11870	440	22	12578	465
						1960	5	12162	3.9	472	5	11500	414	5	12431	455
1045403	3	9	10347	4.2	435	1957	3	10567	4.1	430	3	7793	313	3	9581	365
						1958	3	10543	4.4	460	3	9553	413			
						1959	2	10145	3.8	386	2	8440	339	2	10808	444
						1960	1	9500	5.0	478	1	8730	364	1	9396	403
1046733	11	11	11670	3.7	444	1959	5	11666	3.9	444	5	15132	568	5	13913	515
						1960	6	12040	3.6	441	6	14095	518	6	13691	506
1047073	7	8	11536	3.7	426	1958	4	10980	3.9	429	4	12868	481			
						1959	4	12748	3.5	447	4	14535	516	4	14462	514
						1960	1	15940	3.6	581	1	15660	605	1	17146	625
1048340	198	227	13284	3.5	461	1957	1	14120	3.6	507	1	11410	416			
						1958	34	14365	3.4	487	32	12668	468	5	14288	521
						1959	147	13400	3.5	469	147	12774	472	134	13307	490
						1960	45	12450	3.4	427	41	12163	444	44	12806	468
1048342	31	40	11953	3.6	430	1955	1	13170	3.5	459	1	11710	415	1	10846	376
						1956	1	9990	3.5	346	1	11420	389	1	11925	412
						1957	2	12845	3.7	464	2	9740	393	2	10115	420
						1958	6	11628	3.5	413	6	13195	470	3	13556	500
						1959	7	12290	3.8	463	7	13369	484	7	13183	487
						1960	23	12088	3.6	432	14	12631	461	23	14138	515
1048909	31	41	12035	3.7	448	1958	13	12261	3.7	450	13	12657	468	4	12595	449
						1959	22	12361	3.8	464	22	12445	459	17	12945	474
						1960	6	12053	3.7	441	6	13267	463	6	13654	489
1051232	575	906	12638	3.7	465	1954	3	12073	3.6	428	3	13747	474			
						1955	38	13308	3.6	478	37	12516	455	28	11989	458
						1956	96	12341	3.7	453	92	11812	430	74	12218	447
						1957	157	12443	3.7	458	148	11537	422	129	12082	444
						1958	246	12908	3.7	474	229	12466	460	35	12108	455
						1959	296	12975	3.7	479	297	12567	458	270	13257	493
						1960	68	12840	3.7	467	66	12528	452	68	12995	477
1053895	708	924	12612	3.6	456	1956	1	10820	4.2	450	1	7620	320			
						1957	56	11634	3.6	420	55	11693	431	50	12143	453
						1958	247	12874	3.7	466	236	12726	469	35	12842	469
						1959	474	12932	3.6	469	471	12722	468	427	13301	487
						1960	146	11957	3.6	428	133	12222	446	137	13334	490
1054310	1	1	16590	3.9	654	1960	1	16590	3.9	654	1	8820	443	1	9782	472
1054406	34	55	11489	3.7	429	1955	2	11450	4.2	479	2	12590	439	2	12383	435
						1956	8	11721	3.7	435	8	12156	434	6	12404	442
						1957	7	10675	3.8	409	7	12337	455	7	12192	448
						1958	14	12506	3.7	463	14	12619	463	3	13331	493
						1959	21	11080	3.7	411	21	11997	441	20	12844	468
						1960	3	12507	3.8	463	3	11593	426	3	12579	465
1055463	23	31	12455	3.8	465	1954	1	11180	3.9	442	1	11730	443	1	16170	401
						1955	1	14040	3.6	510	1	13570	491	1	11837	440
						1956	3	12710	4.0	505	2	13935	515	2	14220	531
						1957	3	11790	3.8	441	2	12665	456	2	13685	485
						1958	8	11153	3.9	425	7	11766	445	3	12350	452
						1959	14	13509	3.8	512	14	13277	491	11	13471	501
						1960	1	13130	4.2	545	1	13740	510	1	14977	546
1056437	1	1	9110	4.4	404	1959	1	9110	4.4	404	1	12940	420	1	11521	478
1056882	191	280	12553	3.6	456	1954	2	10540	3.5	362	1	13980	458	1	13363	446
						1955	3	12010	3.6	433	3	13263	472	3	13516	456
						1956	26	13125	3.7	478	24	12079	441	24	12508	454
						1957	42	12242	3.6	441	39	12042	442	32	12542	454
						1958	91	12661	3.7	464	85	11640	441	36	11401	418
						1959	98	12636	3.7	461	97	12653	462	89	13203	480
						1960	18	13528	3.6	480	17	11568	411	17	12931	474

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1057739	2	5	15149	3.8	560	1955	1	11870	3.7	461	1	15540	527	1	13941	468
						1956	1	13090	4.1	542	1	13600	471	1	15816	541
						1957	2	16065	3.6	576	2	13435	482	1	14301	491
						1958	1	17560	3.5	614	1	12460	454	1	13712	475
1060259	4	4	13663	3.5	469	1959	3	13967	3.4	474	3	13123	470			
						1960	1	12750	3.6	454	1	12270	465	1	14432	553
1060822	3	5	13932	4.0	556	1956	2	12880	3.9	495	2	12790	526	2	12230	513
						1957	1	15800	3.9	612	1	15340	559	1	14519	547
						1959	2	15795	4.2	666	2	15420	588	2	16132	654
1061147	1	1	16160	3.5	569	1959	1	16160	3.5	569	1	14580	496	1	13767	485
1061150	1	4	15103	3.5	522	1954	1	15620	3.5	547	1	13600	482			
						1956	1	15230	3.5	532	1	12040	433	1	11674	427
						1957	1	14140	3.5	490	1	13650	496	1	13505	486
						1958	1	15420	3.4	519	1	12460	441			
1061172	1	1	11920	3.4	401	1959	1	11920	3.4	401	1	10860	404			
1061174	3	4	12137	3.7	446	1958	1	12420	3.5	433	1	11170	404			
						1959	2	11505	3.8	443	2	12385	456	2	12110	465
						1960	1	12450	3.3	407	1	13290	443	1	12317	423
1061894	11	21	11931	3.7	441	1953	2	13410	3.7	489	2	15900	546	2	12949	443
						1954	2	8475	3.9	327	2	10570	362	2	12993	452
						1956	4	10145	4.1	409	3	11390	419	3	11616	436
						1957	5	10586	3.8	409	4	12138	437	3	12321	458
						1958	4	12693	3.6	456	4	11510	429	1	12001	451
						1959	3	14470	3.6	525	3	11913	431	3	12651	462
						1960	1	15590	3.3	514	1	14390	501	1	15271	544
1061911	8	13	11773	3.4	396	1957	4	12745	3.3	417	3	14170	507	3	13534	488
						1958	4	11663	3.5	404	4	11528	430	1	10301	344
						1959	4	12113	3.4	409	4	13665	506	4	14377	522
						1960	1	7790	3.4	263	1	8110	275	1	10257	349
1062363	6	7	12094	3.4	411	1957	1	9970	3.6	357	1	11660	424			
						1958	2	7810	3.5	270	2	9295	343	1	7074	263
						1959	2	13530	3.4	454	2	11430	414	1	13538	484
						1960	2	14180	3.4	482	2	9900	416	2	10530	428
1063673	2	2	7050	3.5	239	1960	2	7050	3.5	239	1	7570	314	2	13200	460
1065435	4	6	11557	3.6	408	1957	1	14450	3.4	495	1	11940	432	1	12742	462
						1958	2	10565	3.9	406	2	12215	450			
						1959	2	12420	3.3	411	2	12730	558	1	12938	453
						1960	1	12380	3.5	435	1	12490	461	1	13102	480
1066446	1	1	11120	3.9	435	1957	1	11120	3.9	435	1	10750	362	1	9723	343
1068984	123	125	12692	3.5	447	1959	78	13213	3.5	464	78	13080	479	71	13930	507
						1960	47	11664	3.5	411	42	11510	424	43	13362	497
1070036	3	5	14835	3.6	534	1958	1	15440	3.2	491	1	13300	487			
						1959	4	15495	3.7	565	4	12793	466	1	13919	502
1070198	1	1	18610	3.5	656	1958	1	18610	3.5	656	1	15350	538			
1070209	116	142	11924	3.6	428	1956	2	11790	3.5	410	2	12370	435	2	13434	458
						1957	10	9754	3.6	345	10	10526	362	9	11530	416
						1958	47	11941	3.6	427	45	12222	448	6	13356	488
						1959	68	12287	3.6	441	66	12590	457	60	13273	483
						1960	15	12617	3.6	452	15	13291	478	13	13449	489
1070850	10	12	11957	3.4	413	1956	1	16080	3.4	554	1	15160	553	1	11848	459
						1958	1	6820	3.3	227	1	8750	316			
						1959	6	12187	3.4	416	6	11563	412	6	12290	449
						1960	4	11473	3.4	397	4	11630	421	4	12539	459
1072332	4	5	11361	3.7	422	1957	2	9210	3.7	539	2	9680	546	2	11859	433
						1958	2	13645	3.7	502	2	13050	459			
						1959	1	13040	3.6	475	1	12170	466	1	12936	484
1072819	1	1	11780	3.5	408	1959	1	11780	3.5	408	1	10570	404	1	8382	315
1073818	4	10	12864	3.9	512	1956	2	12280	3.8	465	2	14205	496	1	13265	499
						1957	2	12550	4.2	518	2	14540	526	2	14328	537
						1958	4	13518	4.0	540	3	14037	514	2	13723	510
						1959	2	13575	4.0	542	2	14115	540	2	15021	551
1073831	1	1	9610	3.0	283	1959	1	9610	3.0	283	1	11540	409	1	14602	519
1074864	11	11	13065	3.7	475	1959	10	12962	3.7	473	10	13460	492	9	13084	478
						1960	1	14100	3.5	499	1	12660	444	1	13145	464
1075280	1	2	14165	4.2	601	1958	1	13450	4.0	544	1	13310	518			



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	AV. MILK LB.	AV. FAT LB.
						1959	HOLSTEIN 1	14880	4.4	657	1	12750	492	1	15076	547
1076799	1	1	13160	3.3	437	1955	1	13160	3.3	437	1	11150	396	1	11194	395
1078357	28	44	11013	3.6	388	1956	1	8590	4.0	342	1	9520	333			
						1957	6	10522	3.6	362	6	11622	407	5	12461	444
						1958	19	11083	3.6	397	19	11669	433	4	11658	458
						1959	16	10506	3.7	381	15	11644	449	14	12580	471
						1960	2	12560	3.6	442	2	11660	437	2	12143	444
1078493	5	8	14428	3.4	494	1957	1	14866	3.3	493	1	9680	364	1	11859	433
						1958	4	15700	3.4	523	4	12598	471			
						1959	3	14057	3.5	482	3	12680	494	3	12938	484
1079569	5	11	13014	4.0	523	1956	1	12590	4.1	519	1	12600	448	1	11674	457
						1957	3	12960	4.2	548	3	12423	473	3	12651	474
						1958	2	13625	4.2	571	2	12840	489	1	11718	453
						1959	4	13448	4.0	538	4	11655	460	2	13691	521
						1960	1	6650	4.0	266	1	6550	244	1	13734	508
1079736	1	1	14510	3.9	571	1959	1	14510	3.9	571	1	15750	538	1	16187	614
1081270	21	27	12284	3.7	456	1955	1	9846	3.7	368	1	9610	360	1	7085	317
						1956	2	15740	3.6	553	1	14160	509	1	15609	531
						1957	3	9380	3.4	317	3	11027	392	3	12274	440
						1958	5	12134	3.7	446	4	10973	416	1	12546	458
						1959	10	13254	3.7	494	10	13145	479	9	13719	497
						1960	6	12365	3.8	469	6	11042	394	6	12177	459
1081684	19	29	10881	4.0	427	1956	6	9265	3.9	382	6	11772	423	4	12535	467
						1957	6	10675	4.1	439	6	11747	434	6	11947	458
						1958	8	12596	4.0	492	8	12226	466	3	13610	563
						1959	8	11543	3.9	452	6	12424	460	7	12929	478
						1960	1	1470	5.1	76	1	3440	130	1	11650	443
1083838	54	68	13413	3.7	489	1956	6	11510	3.6	412	6	12445	458			
						1957	4	12433	3.5	434	4	10545	391	4	12222	449
						1958	13	13002	3.7	474	13	12767	471	1	11718	458
						1959	38	13847	3.6	503	37	13171	484	36	13281	489
						1960	7	13660	3.7	509	7	14623	516	7	14663	531
1084190	1	1	11780	4.4	520	1960	1	11780	4.4	520	1	12810	453	1	12263	435
1085879	1	4	14700	3.7	545	1955	1	13430	3.6	513	1	12030	400	1	12088	467
						1956	1	16880	3.6	613	1	13900	450	1	12513	451
						1957	1	14550	3.6	516	1	12830	411	1	13963	465
						1958	1	13940	3.9	535	1	10530	430			
1086776	8	14	10852	3.7	393	1955	4	8030	3.7	297	4	12330	427	3	12615	422
						1956	3	11170	3.7	409	3	11620	425	3	11122	409
						1957	1	12610	3.3	419	1	13500	486	1	13680	498
						1958	4	13305	3.6	480	4	12800	460			
						1959	2	10000	3.7	363	2	12970	458	2	13140	466
1087246	2	2	11395	3.8	427	1959	2	11395	3.8	427	2	13150	461	2	12939	464
1087974	57	66	14013	3.8	521	1958	16	15321	3.8	570	16	12956	484			
						1959	42	13852	3.8	519	41	12590	468	36	13335	500
						1960	5	12770	3.6	458	8	12045	449	8	13251	494
1088151	36	37	11753	3.9	455	1959	16	12866	3.6	489	16	12864	481	15	13183	501
						1960	21	10864	3.9	426	16	11793	444	21	12464	465
1088707	3	3	14990	3.6	545	1956	1	10950	3.2	349	1	13620	512	1	14203	495
						1959	2	17010	3.8	643	2	13140	480	1	11630	463
1088709	9	16	12883	3.6	458	1955	1	13040	3.1	408	1	11900	456	1	13299	492
						1956	2	11510	3.5	406	2	12665	472	2	12214	439
						1957	4	11015	3.5	386	4	12065	410	4	12704	447
						1958	5	11766	3.8	442	5	12998	468	3	12477	457
						1959	3	13497	3.7	503	3	12680	463	3	13501	492
						1960	1	11030	3.7	404	1	11970	415	1	11009	379
1089423	3	4	13703	3.9	527	1958	1	11950	3.8	454	1	6670	295			
						1959	2	14595	3.9	560	2	13805	515	2	13238	501
						1960	1	11890	4.0	471	1	8350	344	1	10704	448
1090980	4	9	11838	3.7	442	1957	1	14450	3.5	499	1	19320	661			
						1958	3	13750	3.7	514	2	12125	443			
						1959	4	12235	3.8	467	4	13033	465	4	14069	503
						1960	1	12160	4.0	481	1	9680	376	1	13996	511
1090981	1	1	10750	3.8	408	1958	1	10750	3.8	408	1	13400	483			
1091670	19	19	13945	3.5	485	1959	9	13601	3.5	473	9	13062	487	9	13952	514
						1960	10	14255	3.5	497	6	12134	431	10	13615	495
1092773	5	9	12131	3.7	443	1955	1	9260	4.2	369	1	5780	297	1	14955	546
						1956	2	13935	3.3	463	2	10600	411	2	11216	417
						1957	1	12480	3.3	409	1	10450	406	1	11750	429
						1958	3	12643	3.6	479	3	11863	457			
						1959	2	13940	3.4	477	2	11470	410	2	12230	447
1094325	1	1	18490	3.3	615	1954	1	18490	3.3	615	1	12050	427			
1094921	36	51	11818	3.8	441	1954	1	12730	3.4	434						
						1955	1	11880	4.2	496	1	12780	473			
						1956	2	13350	3.8	504	2	11820	406	2	11244	409

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						HOLSTEIN										
						1957	4	10860	3.7	402	3	11510	425	3	12201	440
						1958	16	12876	3.7	400	15	12743	461	5	11733	452
						1959	21	11836	3.8	441	21	12900	476	18	12899	463
						1960	6	9825	3.7	346	6	11635	430	6	11876	434
1098427	67	67	12860	3.7	474	1959	46	13115	3.7	486	46	13141	487	43	13214	490
						1960	21	12301	3.7	449	19	11415	416	21	13294	485
1104657	5	9	11090	4.0	431	1955	2	12890	4.1	516	2	14255	496	1	12132	428
						1956	2	11520	4.3	489	2	12305	449	2	12568	460
						1957	1	15550	4.0	625	1	12090	484	1	13625	500
						1958	1	15420	3.8	593	1	11900	455	1	11979	449
						1959	3	10097	4.0	375	3	11600	430	3	13244	476
1106407	1	3	11947	3.4	409	1957	1	11950	3.4	412	1	12010	474	1	13505	486
						1958	1	13150	3.4	449	1	10060	417			
						1959	1	10740	3.4	365	1	9000	350	1	11696	432
1106775	17	22	11699	3.6	426	1955	1	11490	4.4	507	1	14250	524	1	14628	516
						1956	1	12000	3.5	423	1	15170	532	1	13342	489
						1957	4	9988	3.6	358	3	12080	442	2	13500	480
						1958	8	12804	3.6	455	8	13148	494	2	13091	459
						1959	6	11755	3.7	437	6	12240	442	5	12635	456
						1960	2	13050	3.7	481	2	12075	511	2	12225	458
1107436	1	1	12770	3.0	378	1956	1	12770	3.0	378	1	15620	575			
1110594	7	9	14071	3.8	540	1958	1	14220	3.7	527	1	9950	370			
						1959	6	15127	3.8	577	6	13173	474	6	13131	476
						1960	2	10130	3.8	386	1	7670	332	2	11603	439
1111075	23	33	12547	3.6	457	1955	1	11480	3.7	426	1	12520	461	1	12339	445
						1956	2	15370	3.6	562	2	12630	445	2	12683	456
						1957	2	12260	3.5	430	2	10400	395	2	12268	432
						1958	7	13200	3.6	473	7	12101	454	2	13091	459
						1959	10	12971	3.7	477	18	11097	433	16	12795	463
						1960	3	6623	3.7	241	3	7080	259	3	12059	402
1111076	16	25	14137	3.4	480	1954	2	14750	3.5	523	2	13705	512	1	13244	540
						1955	1	12110	3.1	376	1	16000	567	1	13955	481
						1957	3	13810	3.4	472	3	13823	514	3	12742	481
						1958	6	15232	3.5	525	6	14067	504	3	13665	513
						1959	10	13551	3.5	468	10	12068	450	10	13213	480
						1960	3	13940	3.3	458	3	13007	491	2	12503	477
1113278	43	60	10949	3.9	419	1955	1	15920	4.0	636	1	15340	534	1	14671	497
						1956	4	11005	3.8	419	4	11908	441	3	13581	437
						1957	5	9584	3.9	572	5	11492	432	3	11819	439
						1958	17	11742	3.7	433	17	12938	465	3	11216	417
						1959	29	10939	3.9	424	29	12188	448	25	12734	465
						1960	4	10093	3.6	379	3	11103	406	4	12241	443
1113862	1	1	10300	3.7	385	1957	1	10300	3.7	385	1	12310	467	1	11842	461
1115396	6	7	13569	3.6	482	1959	6	13792	3.6	491	6	14180	500	6	13789	432
						1960	1	14350	3.4	488	1	12030	502	1	15554	555
1116074	10	15	13523	3.5	470	1954	2	12115	3.7	447	2	13445	503	1	8153	362
						1955	5	14906	3.3	495	4	15250	553	3	14657	505
						1956	1	10310	3.6	372	1	12200	500	1	15042	518
						1957	3	11097	3.6	399	2	11560	425	2	11810	442
						1958	1	14740	3.6	529	1	13370	506			
						1959	3	12997	3.6	468	3	13213	489	3	13218	497
1116198	1	1	7490	3.2	237	1959	1	7490	3.2	237	1	11030	360	1	11707	404
1117412	58	58	13127	3.7	479	1959	29	13709	3.8	514	28	13030	478	25	13403	485
						1960	30	12585	3.6	446	26	12079	427	29	13335	484
1119383	1	2	11590	4.0	458	1959	1	12080	3.8	457	1	13580	490	1	13494	472
						1960	1	11100	4.1	458	1	9950	381	1	13996	511
1119514	21	25	12840	3.5	437	1954	1	15970	3.1	490	1	15420	530	1	13636	470
						1956	1	14530	3.0	433	1	15360	515	1	15816	511
						1957	1	15170	3.4	508	1	12610	444	1	11728	427
						1958	9	12036	3.4	410	8	12099	446	1	11979	449
						1959	11	12324	3.6	435	11	12015	460	9	13687	503
						1960	2	11925	3.3	387	2	10500	378	2	10666	374
1121706	1	1	10660	3.8	410	1959	1	10660	3.8	410	1	9130	343	1	10867	407
1122159	1	1	7760	4.0	308	1960	1	7760	4.0	308	1	8140	278			
1125395	40	45	12438	3.7	456	1957	1	6240	3.7	233	1	13760	471	1	11925	413
						1958	12	13338	3.8	502	12	12768	469	4	11622	416
						1959	27	12042	3.7	440	25	12845	486	24	12939	473
						1960	5	13674	3.5	483	5	13052	482	5	13029	469
1126687	5	6	11362	3.9	444	1958	1	11140	3.6	423	1	14980	540			
						1959	2	9300	3.7	337	2	10905	401			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						1960	HOLSTEIN 3	12007	4.0	485		3	10807	413	3	12804	477
1127120	22	22	11912	3.9	458	1959	12	11898	3.9	470	12	12150	458	9	12493	468	
						1960	10	11929	3.7	444	9	12572	470	10	13652	501	
1127694	380	401	12373	3.6	450	1958	11	11969	3.5	426	10	12590	458	1	11347	398	
						1959	283	12612	3.6	458	279	12868	474	262	13437	491	
						1960	106	12052	3.7	440	98	12242	449	104	13239	486	
						1961	1	5610	4.2	238							
1128314	2	2	8670	4.0	346	1959	1	9990	4.1	408	1	12730	475	1	13701	493	
						1960	1	7350	3.9	284				1	10704	448	
1132993	34	50	13122	3.7	477	1956	3	12283	3.7	447	3	11577	404	2	14454	496	
						1957	9	12483	3.6	450	9	11948	440	6	12551	450	
						1958	17	13316	3.6	484	16	12054	444	9	11866	441	
						1959	19	13492	3.7	502	19	12605	467	18	13248	480	
						1960	2	15855	3.8	600	2	13700	441	2	12306	425	
1134953	1	1	13540	4.0	543	1957	1	13540	4.0	543	1	12580	439	1	11347	409	
1135455	2	6	10372	3.6	375	1957	2	9425	3.5	331	2	10400	369	2	10268	370	
						1958	2	11470	3.6	410	2	11565	406				
						1959	2	10220	3.8	583	2	12440	455	2	12699	443	
1138441	1	1	15090	3.6	543	1959	1	15090	3.6	543	1	13150	456	1	14955	548	
1138724	6	6	12305	3.6	440	1959	5	12688	3.6	452	5	12008	437	5	13629	490	
						1960	1	10390	3.6	376	1	12740	477	1	12747	475	
1144034	22	22	12905	3.7	474	1959	4	13583	3.7	498	3	13137	462	4	11573	417	
						1960	18	12754	3.7	469	16	12155	456	18	12936	472	
1145788	2	2	10510	3.8	403	1958	1	9200	3.7	340	1	12230	459				
						1959	1	11820	3.9	465	1	14260	513	1	15195	555	
1149460	1	1	12180	3.8	463	1959	1	12180	3.8	463	1	11260	421				
1151863	10	10	13492	3.8	517	1959	10	13492	3.8	517	10	13226	484	9	13509	503	
1152248	3	4	9895	3.5	346	1958	2	10975	3.6	395	2	14140	503				
						1959	2	9400	3.5	322	2	13790	517	1	14214	506	
1152351	3	8	13453	3.6	476	1957	3	13087	3.6	474	3	12410	451	3	12826	466	
						1958	2	12575	3.5	438	2	11595	443				
						1959	3	14093	3.5	492	3	15110	475	3	13058	462	
1153740	7	7	8661	3.8	326	1957	1	2230	3.7	83	1	9360	323				
						1958	3	9290	4.0	366	3	12030	456	1	11979	445	
						1959	3	10177	3.6	367	3	11783	454	3	13138	481	
1153997	1	1	10470	3.5	368	1957	1	10470	3.5	368	1	10630	366	1	11859	433	
1154946	1	1	11910	4.5	537	1960	1	11910	4.5	537	1	8160	208	1	14661	509	
1155894	1	2	14315	4.1	576	1958	1	13900	4.0	550	1	11330	452	1	12906	533	
						1959	1	14730	4.1	602	1	13400	557	1	13505	550	
1155944	38	38	12010	3.5	428	1959	22	12176	3.6	440	21	12638	461	19	13521	492	
						1960	16	11780	3.5	412	13	12951	464	15	13916	503	
1156059	7	8	12234	3.8	455	1958	2	13280	3.6	477	2	12105	457	1	11979	449	
						1959	2	10600	4.0	423	2	10375	399	2	10094	371	
						1960	4	12270	3.7	450	4	12375	449	4	12511	459	
1156771	2	2	14475	4.5	647	1959	1	13140	4.5	590	1	13450	538	1	15761	576	
						1960	1	15810	4.4	703	1	14750	526	1	14344	546	
1157722	5	5	13292	3.5	466	1957	1	12150	3.3	404	1	12730	454	1	12786	457	
						1959	3	14427	3.6	520	3	13077	476	2	13740	511	
						1960	1	11030	3.3	365	1	9450	205	1	12415	443	
1160414	1	1	13250	4.0	530	1956	1	13250	4.0	530	1	19210	699				
1164014	3	4	11928	3.9	462	1958	1	12560	3.5	437	1	14470	519	1	12775	485	
						1959	2	11920	4.0	472	2	13030	475	1	13787	487	
						1960	1	11330	3.9	446	1	13310	496	1	13494	505	
1164018	6	7	9981	3.9	394	1958	3	9963	3.8	383	3	13430	492	3	11627	419	
						1959	4	9900	4.1	400	4	12403	466	3	12760	468	
1167093	9	9	11439	3.7	432	1959	7	11227	3.8	432	7	12117	457	6	12106	469	
						1960	2	12160	3.5	432	2	10300	373	2	10916	396	
1170400	1	2	18060	3.6	636	1955	1	22670	3.3	744	1	16060	583				
						1957	1	13450	3.9	528	1	13620	504	1	14050	511	
1170910	7	8	12989	3.7	474	1958	2	10695	4.2	442	2	10130	388				
						1959	6	13267	3.6	469	6	12168	442	6	13037	468	
1172141	2	2	11465	3.4	392	1958	1	12020	3.4	409							
						1959	1	10910	3.4	375	1	13460	479	1	14225	493	
1175466	9	15	12231	3.8	458	1957	2	12020	4.3	506	2	10770	398	2	11707	428	
						1958	4	12808	3.5	456	4	10358	402				

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1175467	9	14	13051	3.7	481	1959	7	11919	3.7	435	7	10731	424	6	11233	446
						1960	2	11525	4.1	473	2	9930	371	2	11086	407
						1958	4	13633	3.8	513	4	13465	496	1	13091	459
						1959	9	12650	3.7	460	8	11603	440	8	13174	484
1176826	4	4	9193	4.5	421	1960	4	9193	4.5	421	3	11293	397	3	12880	513
						1957	1	13550	4.1	556	1	11290	423			
						1958	2	11435	4.1	466	2	12230	449			
						1959	3	12470	3.9	481	3	12143	440	3	13174	480
1177441	3	8	12403	3.9	486	1960	2	12230	3.8	467	2	13005	466	2	12835	453
						1958	1	2610	3.4	68	1	5610	226	1	8382	315
						1959	1	8290	3.6	297	1	8460	336	1	9365	346
						1960	1	10840	3.6	386	1	8910	325			
1179574	22	26	11677	3.8	449	1957	1	11440	3.5	402	1	13580	489	1	13287	461
						1958	6	11170	3.7	418	4	11930	442			
						1959	14	11347	3.9	444	14	12490	455	12	13213	487
						1960	5	13630	3.9	533	3	12910	473	5	13559	502
1179575	13	18	11430	3.6	409	1957	1	13190	3.7	490	1	11260	438	1	11587	444
						1958	8	11020	3.7	410	8	11520	437	2	10650	398
						1959	6	12835	3.6	459	6	11875	434	6	12028	467
						1960	3	11753	3.4	406	2	10630	394	3	12412	453
1179895	4	7	13283	3.6	466	1958	3	12390	3.7	452	3	12377	461			
						1959	4	13216	3.5	458	4	12795	461	4	13388	477
						1958	1	11990	3.8	450	1	13180	472			
						1959	11	11993	3.9	460	11	12608	473	11	13234	492
1184848	14	15	12009	3.9	463	1960	3	11903	3.9	469	3	11140	409	3	11863	438
						1959	13	13727	3.7	507	13	12731	466	10	13313	493
						1960	1	14660	3.7	542	1	13010	478	1	12644	473
						1958	1	12790	3.6	464	1	13020	457			
1190396	3	3	13610	3.5	481	1959	2	14020	3.5	489	2	13860	505	1	13254	469
						1958	1	15050	3.6	540						
						1959	3	14530	3.5	504	3	13653	472	3	13229	464
						1960	2	13630	3.2	446	2	12675	472	2	12977	476
1192779	4	6	14298	3.5	497	1957	1	12770	4.1	521	1	7590	340	1	13265	496
						1958	1	11020	4.1	457	1	13180	453	1	12459	446
						1959	1	12770	4.1	521	1	7590	340	1	13265	496
						1960	1	11020	4.1	457	1	13180	453	1	12459	446
1192789	2	2	11095	4.1	489	1957	1	13140	3.5	433	1	11310	415			
						1958	2	10160	3.6	362	2	10355	365			
						1959	2	11440	3.5	404	2	11040	397	2	11401	412
						1960	1	11040	3.7	404	1	12990	423	1	11576	417
1193360	3	6	10963	3.6	393	1958	1	18230	3.7	667	1	14080	514			
						1960	2	11615	3.3	391	2	10870	389	2	14285	518
						1958	1	10840	4.2	460	1	10830	403	1	10257	342
						1959	1	12040	4.0	466	1	12740	477	1	13415	488
1193934	3	3	13820	3.4	483	1960	1	14990	4.3	641	1	14160	529	1	13919	533
						1958	1	10840	4.2	460	1	10830	403	1	10257	342
						1959	1	12040	4.0	466	1	12740	477	1	13415	488
						1960	1	14990	4.3	641	1	14160	529	1	13919	533
1194166	2	3	12178	4.2	512	1957	1	14430	3.7	529	1	14050	446	1	12906	470
						1958	1	13280	4.0	535	1	15730	617	1	13974	511
						1959	3	11090	3.7	411	3	12617	465			
						1960	1	12920	3.5	458	1	14740	552	1	13625	505
1200288	1	2	13855	3.9	532	1957	1	8510	4.4	374				1	12197	429
						1958	1	8510	4.4	374				1	12197	429
						1959	2	12265	3.7	449	2	13930	490	2	14105	507
						1960	1	13450	4.1	550	1	12750	456	1	15402	573
1202133	1	1	13450	4.1	550	1957	1	15310	3.6	553	1	13470	496	1	14802	519
						1958	1	15310	3.6	553	1	13470	496	1	14802	519
						1959	1	15310	3.6	553	1	13470	496	1	14802	519
						1960	1	15310	3.6	553	1	13470	496	1	14802	519
1202275	1	1	8510	4.4	374	1957	1	15310	3.6	553	1	13470	496	1	14802	519
						1958	1	15310	3.6	553	1	13470	496	1	14802	519
						1959	1	15310	3.6	553	1	13470	496	1	14802	519
						1960	1	15310	3.6	553	1	13470	496	1	14802	519
1204557	1	2	12265	3.7	449	1957	1	15310	3.6	553	1	13470	496	1	14802	519
						1958	1	15310	3.6	553	1	13470	496	1	14802	519
						1959	1	15310	3.6	553	1	13470	496	1	14802	519
						1960	1	15310	3.6	553	1	13470	496	1	14802	519
1210078	1	1	13450	4.1	550	1957	1	15310	3.6	553	1	13470	496	1	14802	519
						1958	1	15310	3.6	553	1	13470	496	1	14802	519
						1959	1	15310	3.6	553	1	13470	496	1	14802	519
								1960	1	15310	3.6	553	1	13470	496	1
1211183	2	3	17233	3.5	595	1956	2	17780	3.5	615	1	17620	649			
						1959	1	13370	3.4	450	1	12780	459	1	18159	649
						1958	1	14220	3.6	516	1	14910	530	1	15636	486
						1959	1	14220	3.6	516	1	14910	530	1	15636	486
1211335	1	1	14220	3.6	516	1959	1	14220	3.6	516	1	14910	530	1	15636	486
						1958	1	8600	3.8	325	1	12760	423	1	11979	417
						1959	1	5520	4.1	227	1	9440	356	1	10377	366
						1960										
1215686	1	2	7060	4.0	276	1958	2	11825	3.7	436	2	14300	524			
						1959	4	12135	3.9	466	4	12376	469	3	13934	521
						1960	2	14145	3.9	543	2	13895	492	2	14786	534
						1958	1	10840	4.2	460	1	10830	403	1	10257	342
1216909	6	8	12825	3.9	493	1959	6	11440	3.8	432	6	12140	448	4	12105	444
						1960	3	7357	3.4	248	2	9600	371	3	13680	495
						1957	1	13610	4.3	579	1	15170	595	1	16361	579
						1960	1	18240	3.6	651	1	13960	506	1	11837	423
1216957	9	9	10079	3.7	371	1958	2	11735	4.2	490	2	12940	472			
						1959	1	13610	4.3	579	1	15170	595	1	16361	579
						1960	1	18240	3.6	651	1	13960	506	1	11837	423
						1957	1	13610	4.3	579	1	15170	595	1	16361	579
1221761	2	2	15925	4.0	615	1959	1	13610	4.3	579	1	15170	595	1	16361	579
						1960	1	18240	3.6	651	1	13960	506	1	11837	423
						1958	2	11735	4.2	490	2	12940	472			
						1959	1	13610	4.3	579	1	15170	595	1	16361	579
1224123	7	8	10374	4.0	420	1958	2	11735	4.2	490	2	12940	472			
						1959	1	13610	4.3	579	1	15170	595	1	16361	579
						1960	1	18240	3.6	651	1	13960	506	1	11837	423
						1957	1	13610	4.3	579	1	15170	595	1	16361	579

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY HERD AVERAGE MILK LB.	FAT LB.
						HOLSTEIN										
1224313	11	14	13617	3.5	472	1959	6	10168	4.0	404	0	12753	479	5	13717	491
						1958	5	13692	3.4	455	5	12102	437	2	11129	417
						1959	8	13400	3.5	470	8	12560	460	8	12825	460
						1960	1	13480	3.7	504	1	7220	310	1	11380	417
1224521	1	1	16600	3.8	639	1960	1	16600	3.8	639	1	14410	517	1	15271	544
1227623	2	3	11485	3.8	431	1958	1	12620	3.7	464	1	9050	356	1	13374	467
						1959	1	13300	3.9	522	1	11630	364	1	11194	428
						1960	1	7400	3.7	271	1	10050	381	1		
1230731	1	1	10020	4.2	420	1959	1	10020	4.2	420	1	11900	449	1	12651	496
1230734	1	2	13765	3.5	485	1958	1	15440	3.4	531	1	12700	499			
						1959	1	12090	3.6	438	1	13250	497	1	13625	505
1230743	1	2	13930	3.4	479	1958	1	11610	3.4	407	1	18050	680			
						1959	1	16050	3.4	551	1	14800	540	1	13157	647
1236249	2	2	10435	4.2	436	1960	2	10435	4.2	436	1	13220	481	2	13157	477
1237594	1	1	9360	3.8	353	1960	1	9360	3.8	353	1	7910	273			
1239208	2	3	9308	3.9	356	1959	1	10110	3.8	386	1	13430	470	1	13789	427
						1960	2	8870	3.9	341	2	11030	404	2	11452	439
1239479	1	1	15540	3.8	593	1960	1	15540	3.8	593	1	15410	572	1	14955	573
1240095	4	4	10583	3.7	390	1959	2	9850	3.9	377	2	11795	435	2	12746	482
						1960	2	11315	3.6	403	2	9795	344	1	12459	446
1246183	3	3	13630	3.7	502	1959	2	12855	3.8	485	2	14210	520	2	15146	561
						1960	1	15180	3.5	536	1	15150	564	1	15576	591
1246450	3	3	11820	3.6	421	1959	3	11820	3.6	421	3	12410	453	3	13454	493
1249434	1	1	13460	3.5	470	1959	1	13460	3.5	470	1	11740	432	1	10613	390
1263007	11	11	11372	3.5	399	1960	11	11372	3.5	399	5	12050	428	11	14548	574
1264447	5	6	14131	3.5	495	1959	2	13565	3.2	440	2	13110	477	2	13931	496
						1960	4	14315	3.5	506	4	14918	549	4	14998	545
1269479	1	1	860	4.7	41	1960	1	860	4.7	41	1	12510	486	1	13996	511



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	MILK LB.	FAT LB.
JERSEY																
335421	11	36	8649	5.3	458	1947	12	8123	5.4	441						
						1948	5	9484	5.1	484	1	6980	351			
						1949	5	7916	5.4	428	1	8750	441			
						1950	4	8405	5.2	437						
						1951	5	11613	5.1	594	1	9010	464			
						1952	4	10355	5.1	524	1	9370	478			
						1953	2	9760	5.7	548	1	8750	476	1	9974	522
						1954	1	11160	5.4	599	1	8540	469			
357879	2	6	7909	4.8	382	1947	1	6670	4.7	312						
						1949	1	7250	4.6	291						
						1950	1	5220	4.5	234						
						1952	1	10200	5.3	538						
						1953	1	9940	4.9	489						
						1954	1	8170	5.2	425						
360122	16	35	6871	5.5	374	1948	8	6691	5.2	344						
						1949	8	7505	5.4	403						
						1950	9	7392	5.6	413						
						1951	4	5358	5.7	303						
						1952	4	7576	5.7	432						
						1953	1	5180	5.8	303						
						1955	1	6396	5.6	356						
361013	16	37	7948	5.2	410	1947	13	7849	5.3	419						
						1948	8	7940	5.3	418						
						1949	7	8503	5.0	420						
						1950	5	8008	5.0	405						
						1951	1	9796	5.4	530						
						1956	1	10850	4.5	488	1	7470	383	1	9407	500
						1957	1	8270	4.5	376	1	8020	411	1	8306	440
						1958	1	9880	4.6	453	1	8140	429			
371588	1	4	8863	5.0	435	1949	1	11160	4.7	523						
						1950	1	7200	5.0	360						
						1951	1	7650	5.2	400						
						1952	1	9440	4.9	458						
381856	12	28	7270	5.2	372	1948	6	6732	5.1	343	1	5980	303			
						1949	5	7302	5.2	379	3	7003	380			
						1950	6	7592	5.6	421	1	6350	292			
						1951	5	6532	5.1	334	1	8010	398			
						1952	3	9177	4.5	405	1	8240	422			
						1953	2	8570	4.6	398	1	8540	431	1	7979	403
						1954	1	11260	4.8	540	1	8110	405	1	8295	402
383885	15	50	8143	5.3	425	1947	7	8527	5.5	454	2	8710	417			
						1948	8	9301	5.1	472	2	6270	343			
						1949	10	8701	5.2	450	3	8847	459			
						1950	7	9150	5.2	476	2	8950	484			
						1951	7	8190	5.3	427	2	8470	454			
						1952	6	9563	5.1	487	1	8450	483			
						1953	3	11090	4.8	532	2	8400	474	3	9974	522
						1954	1	8890	5.4	478	1	8910	489			
						1955	1	13010	4.9	637	1	10400	560	1	9232	500
394891	75	186	7851	5.3	415	1948	4	7375	5.5	411	1	8880	467			
						1949	13	8218	5.2	422	1	10750	565			
						1950	39	8173	5.4	439	3	9823	506			
						1951	31	8011	5.3	421	6	8437	448			
						1952	24	8390	5.4	446	9	9331	473			
						1953	16	8548	5.3	447	8	8634	442	3	8495	417
						1954	22	7588	5.4	404	14	7881	398	11	7704	391
						1955	14	8756	5.1	446	9	9050	465	9	9112	476
						1956	6	7837	5.1	398	5	8524	450	4	8682	451
						1957	6	8702	4.8	411	4	8028	388	2	8982	454
						1958	7	7976	4.9	387	4	7100	359	1	8578	460
						1959	4	6890	5.0	332	3	7943	384	3	8891	426
398040	2	8	8572	4.8	408	1950	1	11280	4.8	536						
						1951	1	7150	5.0	356						
						1952	1	9730	4.6	450						
						1953	1	10860	4.4	481				1	7837	407
						1954	1	10240	4.7	483						
						1955	1	9570	4.6	445				1	7499	403
401669	3	5	6991	5.1	355	1952	2	6830	5.2	352						
						1958	1	8200	4.9	405	1	6630	366			
						1959	1	6766	4.7	320	1	8390	339	1	7772	425
						1960	1	6980	5.2	364	1	6760	366	1	6867	384
402729	2	6	8296	5.6	459	1952	1	8550	5.4	462						
						1953	1	11360	5.8	634	1	10280	546			
						1954	1	8990	5.6	505	1	10160	550			
						1955	1	7150	6.0	429	1	7820	451	1	8796	481
						1956	1	4970	5.4	269	1	10320	552	1	8927	478
						1957	1	7740	5.5	423	1	10250	562	1	9320	502
404667	1	1	4330	5.8	252	1958	1	4330	5.8	252						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR													
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	TEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.			
JERSEY																			
407306	3	4	8385	4.9	412	1958	4	8023	5.1	403		3	8457	449					
414388	1	4	9500	5.1	489	1951	1	10120	5.2	528									
						1952	1	10260	5.3	545									
						1953	1	8730	5.3	462				1	8153	420			
						1954	1	8890	4.7	421		1	7600	438	1	8557	456		
417734	6	21	7479	5.0	367	1947	2	6980	5.4	373									
						1948	6	7820	4.6	372									
						1949	4	7560	5.1	381									
						1950	5	7206	5.0	358									
						1951	3	6467	5.0	316									
						1952	1	8960	4.6	414									
421181	2	3	8675	5.3	457	1950	1	8050	5.4	436									
						1951	1	10390	5.1	526									
						1952	1	8210	5.2	429									
424606	3	5	8437	5.4	452	1953	1	9910	5.3	527		1	8050	445	1	9614	498		
						1954	3	8767	5.4	476		3	8990	483	3	9102	460		
						1956	1	5450	5.5	501		1	7850	367					
426727	2	6	8363	5.7	477	1947	2	9450	5.7	536									
						1948	1	8580	5.6	480									
						1949	1	5790	5.4	312									
						1951	1	7380	5.8	425									
						1952	1	7860	5.6	440									
429793	10	17	6802	5.2	346	1953	2	6600	5.1	358		1	9400	487	1	9614	498		
						1954	5	7042	5.3	374		3	7950	434	2	8023	414		
						1955	3	6297	4.8	303		2	7460	389	2	7592	394		
						1956	2	4655	5.4	235									
						1957	3	7590	4.4	329		1	7950	353					
						1958	2	8375	5.0	422		1	7950	353					
433856	9	17	7553	5.2	393	1952	6	7743	5.3	414		2	10100	429					
						1953	5	7136	5.2	373		1	12670	452					
						1954	3	7937	5.0	397		3	9253	422	1	11750	467		
						1955	1	9110	3.8	350									
						1958	2	10550	5.6	589		1	7970	409					
434170	1	1	7810	5.8	454	1957	1	7810	5.8	454									
435238	5	9	6963	4.7	329	1953	1	6880	4.8	350		1	7240	376					
						1954	1	7640	4.8	366		1	7160	374	1	7608	372		
						1955	1	9436	4.5	426		1	9910	518	1	6736	344		
						1958	5	7040	4.6	325		1	9130	465					
						1959	1	7540	5.0	379									
435408	2	3	6380	4.4	277	1951	1	7340	4.3	312									
						1956	1	8480	4.5	385		1	6840	348	1	7815	415		
						1957	1	2360	4.2	98		1	5660	297	1	7804	405		
437533	1	3	8580	5.7	486	1952	1	8010	5.9	518									
						1953	1	8650	5.2	453									
						1954	1	8280	5.9	487									
438165	1	2	6910	5.1	351	1957	1	6350	4.9	310									
						1958	1	7470	5.2	392									
439203	2	4	8354	5.1	408	1957	2	8625	5.1	414									
						1958	1	9690	4.5	424									
						1960	1	11200	4.5	507									
441066	3	4	8190	5.4	440	1952	3	8063	5.3	432									
						1953	1	7990	5.1	407									
444841	21	34	7225	5.4	391	1949	1	5680	5.6	332									
						1950	4	8208	5.5	444									
						1951	2	6930	5.5	376									
						1952	3	6297	5.8	565									
						1953	3	7627	5.4	409		1	8990	447	1	7979	403		
						1954	4	6935	5.6	584		2	6240	328	2	6998	372		
						1955	2	8145	5.4	435									
						1956	3	7467	5.3	397		1	5470	284					
						1957	3	7270	5.1	377		1	6900	345	1	8524	434		
						1958	6	7712	4.9	378		4	7033	343	1	7652	330		
						1959	3	7797	5.1	406		1	4770	237	1	5657	291		
						445150	3	8	9862	5.2	516	1953	2	11005	5.0	561		1	10740
1955	1	14610	6.0	684								1	10220	572	1	10726	600		
1956	1	13900	5.3	739								1	8050	502	1	10824	632		
1957	1	10450	5.2	543															
1959	3	9487	5.2	491								2	8250	422	1	9167	472		
445664	50	76	7519	5.1	369	1954	6	7138	5.5	387		4	7155	367	4	7380	376		
						1955	6	7292	5.2	375		5	8212	400	4	8265	412		
						1956	10	6921	5.0	336		4	7450	359	4	8246	399		
						1957	17	8629	5.0	423		3	8250	456	3	8578	454		
						1958	18	7792	5.0	392		4	8153	428					
						1959	14	7670	4.7	348		5	6592	328	3	8786	474		
						1960	5	9580	4.5	422		1	8280	389	1	8785	414		

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
JERSEY																
446754	2	4	7469	5.9	440	1953	1	6250	6.1	381	1	7580	399			
						1958	1	9730	5.9	377						
						1959	1	8190	5.7	464						
						1960	1	8140	5.6	454						
446985	1	1	8470	5.7	481	1959	1	8470	5.7	481						
451141	6	10	6736	5.9	395	1953	2	7565	5.9	444	2	8435	460	1	9330	502
						1954	1	8120	5.1	410	1	7510	380	1	9025	435
						1956	1	5160	5.6	298						
						1957	1	5030	5.7	285						
						1958	3	7333	6.0	439	1	8900	452			
						1959	1	5670	6.2	351	1	6870	339	1	7238	370
						1960	1	9270	6.0	556	1	8370	423	1	8753	461
452338	1	1	8660	5.2	452	1951	1	8660	5.2	452						
452342	1	1	4100	5.7	234	1953	1	4100	5.7	234						
454006	1	2	5390	5.1	274	1958	2	5390	5.1	274	1	7530	392			
454049	2	5	9334	5.3	491	1954	1	8180	5.1	419	1	7090	368	1	7608	392
						1955	1	8790	5.2	459	1	9900	515	1	6736	344
						1957	1	8640	5.3	468	1	8850	473	1	8371	451
						1958	1	11880	5.1	611	1	8220	431			
						1959	1	9630	5.6	548	1	9010	441	1	8676	458
454499	8	12	7630	5.3	405	1952	1	4100	5.3	217						
						1953	2	6515	5.5	349	2	7955	414	1	7979	403
						1954	3	8790	5.0	439	3	7803	413	2	7619	305
						1955	4	7988	5.5	432	2	7905	400	2	7957	404
						1956	1	6750	6.0	408	1	8640	397	1	8535	414
						1958	1	7820	5.5	432	1	7980	424			
456437	33	74	6877	5.5	373	1948	1	5870	5.7	335						
						1949	6	6443	5.6	359						
						1950	8	6768	5.5	371	1	9140	443			
						1951	13	7325	5.5	401	2	7860	391			
						1952	11	6329	5.4	341	2	8965	422			
						1953	8	7274	5.4	398	3	8260	401	3	8422	434
						1954	8	7979	5.4	431	6	7418	381	4	7453	376
						1955	4	7358	5.5	402	1	8570	428	1	8993	449
						1956	4	7620	5.3	399	2	7575	353	1	6954	382
						1957	2	7305	5.3	388	1	7280	345	1	6584	342
						1958	5	7430	5.0	373	1	7980	407			
						1959	3	6637	5.5	363	1	8560	419	1	7881	404
						1960	1	6600	4.8	318	1	8750	418	1	8077	410
457905	55	132	8341	4.9	408	1948	2	7325	5.2	374						
						1949	12	8418	4.8	399						
						1950	17	8385	4.8	397	1	6240	338			
						1951	24	8545	5.1	431	3	8620	400			
						1952	22	8588	5.1	424	6	7962	378			
						1953	18	8599	4.9	414	8	7418	390	4	7614	386
						1954	17	8261	4.8	399	12	7963	375	10	7943	378
						1955	6	8670	4.9	421	5	8576	398	5	8620	411
						1956	6	7167	4.9	351	5	7458	373	4	8107	415
						1957	4	8278	4.4	355	3	6233	319	3	7336	377
						1958	2	6755	4.8	325	2	6465	333			
						1959	1	5510	4.4	245	1	4770	246	1	5657	291
						1960	1	5590	4.4	247	1	3700	202	1	5777	292
460440	1	1	12690	4.9	622	1956	1	12690	4.9	622	1	9590	498	1	9069	469
460676	8	13	6050	5.5	340	1953	1	7900	5.9	469	1	9280	507			
						1954	1	7820	6.1	479	1	8500	460	1	9843	560
						1955	1	8190	6.2	509	1	8660	485	1	9243	516
						1956	1	7800	6.1	478	1	9100	517	1	8807	492
						1957	1	3960	6.6	262	1	9090	522	1	9657	538
						1958	2	7730	5.1	398						
						1959	5	6602	5.6	301	3	6790	367	3	7496	400
						1960	1	1170	4.4	52	1	7560	397	1	8753	461
462961	1	2	7090	5.3	379	1958	1	9910	5.4	533						
						1960	1	4270	5.2	224						
463576	5	10	7263	5.0	364	1957	2	8825	4.8	420						
						1958	3	6717	4.6	320	1	9180	426			
						1959	4	7233	5.2	373	2	8130	420	2	9167	472
						1960	1	8490	4.9	417						
464461	8	14	7070	4.8	346	1957	3	5533	4.3	250	2	5855	307	2	7881	400
						1958	8	8360	4.9	411	5	7938	414			
						1959	3	7683	5.0	379	3	6913	337	2	8868	413
466643	8	9	6829	5.3	369	1956	2	6415	5.4	347	2	14450	717	2	9069	469
						1957	1	6240	5.5	345						
						1958	2	6980	5.3	368						
						1959	2	8925	5.7	502						
						1960	2	5175	4.9	267	2	6275	344	2	7810	473

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
467771	29	64	7820	5.0	386	1950	3	7567	5.3	398	1	6770	356			
						1951	10	7869	4.9	377	1	7320	396			
						1952	14	8272	5.1	410	6	8552	451			
						1953	9	8353	4.9	406	4	7353	380	4	7881	390
						1954	10	8685	5.0	424	5	6906	343	5	7118	352
						1955	8	9260	4.7	427	4	8250	415	4	8382	419
						1956	7	8481	4.7	378	3	7023	365	3	7394	379
						1957	3	4953	5.1	254	2	6270	307	2	6530	334
468989	16	34	8040	5.1	407	1953	6	8573	5.1	431	3	7970	399	1	7979	403
						1954	8	7665	5.1	404	7	7507	376	6	7260	378
						1955	5	8380	4.8	404	4	7898	398	4	8260	417
						1956	6	7407	5.3	389	3	7047	349	2	8121	408
						1957	4	6878	5.3	357	1	5010	254	1	6954	348
						1958	3	7873	5.1	404	1	8010	365			
						1959	2	7720	5.2	398	1	7410	396	1	7249	380
470987	15	22	6716	5.5	372	1953	4	6565	5.7	368	1	9430	511	1	6518	364
						1954	5	7092	5.7	405	2	7050	391	1	8317	475
						1955	5	7300	5.5	399	3	7957	400	3	7714	401
						1956	3	6137	5.7	349	2	7225	362	2	7755	403
						1957	2	7610	5.4	415	1	8340	405	1	8524	434
						1958	3	6027	5.0	308	2	9170	445	1	8295	454
471534	1	3	10520	4.9	513	1958	2	10930	4.9	538	1	8810	450			
						1959	1	9700	4.8	464	1	8350	428	1	9167	472
472114	2	3	6015	5.1	307	1959	3	5873	4.9	288	2	6370	320	2	7350	385
474206	1	3	7383	4.3	317	1953	1	7330	4.4	320	1	5980	305			
						1954	2	7410	4.3	315	2	6555	335	2	6965	366
474642	16	26	6829	5.3	366	1955	2	7020	6.4	445	1	9220	441	1	8502	420
						1956	9	6747	5.3	373	4	6278	316	6	7643	381
						1957	7	6823	5.0	340	3	5757	299	3	6954	348
						1958	5	7110	5.5	391	1	8260	462			
						1959	2	7910	5.4	429	1	8900	423	1	8622	457
						1960	1	8280	5.4	447	1	8900	461	1	8698	477
475448	3	5	8123	5.4	440	1954	1	7110	6.0	426	1	8460	403	1	7608	392
						1955	1	9290	6.5	608	1	9930	500	1	6736	344
						1958	2	7845	5.0	389						
						1959	1	8210	5.0	408						
475547	2	4	7130	5.7	403	1956	2	6915	5.7	395	1	7870	428	1	7020	375
						1957	2	7345	5.6	409	1	6100	297	1	6627	370
475680	5	9	7955	5.5	423	1956	1	7580	5.6	426						
						1957	4	6445	5.6	355	2	7015	376	2	7499	411
						1958	1	10240	5.1	519	1	8540	441			
						1959	1	10140	4.0	485	1	7660	395	1	8676	458
						1960	2	11790	5.0	587	1	9670	516	1	11151	569
475879	1	2	9030	4.2	369	1958	1	6290	4.3	269						
						1959	1	11770	4.0	468						
475931	6	12	6996	4.9	343	1956	6	7137	4.8	343	4	6400	319	4	7546	373
						1957	4	6703	4.8	327	2	6025	307	2	6954	348
						1958	1	8990	5.8	518	1	8180	460			
						1959	1	7710	6.0	459	1	8150	440	1	8622	457
477746	39	75	8405	5.0	414	1951	2	7995	4.5	358	1	7290	366			
						1952	5	8956	5.0	444	3	8290	425			
						1953	9	8431	5.0	421	4	7770	422	3	7557	398
						1954	18	8592	5.1	440	12	7522	388	8	7326	387
						1955	13	8469	5.2	438	7	8151	413	7	8368	427
						1956	8	8215	4.9	398	4	8293	395	5	8454	424
						1957	9	7514	4.7	356	6	7813	402	6	7770	393
						1958	7	9463	4.9	461	2	7635	378			
						1959	4	8948	4.8	423						
479081	2	2	6145	5.4	330	1957	2	6145	5.4	330						
480287	11	18	8505	4.9	422	1956	2	8815	4.6	411	1	9880	513	1	9069	469
						1957	2	6970	4.5	297						
						1958	7	8324	5.1	426	3	8060	421			
						1959	6	9595	5.1	486	5	7794	404	5	9167	472
						1960	1	4290	4.5	193						
480625	2	3	6935	4.7	326	1953	1	7910	5.0	396						
						1955	1	6270	4.4	275						
						1956	1	7290	4.9	356						
485146	9	18	7967	5.1	402	1956	4	8678	4.9	426	2	7010	359	2	7701	398
						1957	5	7322	5.4	389	2	7390	369	2	7379	377
						1958	6	7698	5.6	419	2	7465	367			
						1959	1	6740	6.2	420	1	6900	367	1	7565	399
						1960	2	7075	5.5	363	1	6450	358	1	6802	370
486930	11	21	9020	4.8	433	1952	1	11750	5.2	607	1	10330	523			
						1953	3	7920	4.8	384	1	8830	453	1	9614	498
						1954	7	9357	4.9	456	2	8400	464	2	8170	424
						1955	2	8430	4.6	380						
						1956	3	9223	4.9	449	1	7810	420			
						1957	2	10195	4.8	492	1	7240	398	1	9439	473
						1958	2	8075	5.0	400						
						1959	1	8770	4.4	390						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. LB.	AV. RECORDS NO.	YEARLY HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
488392	3	4	7157	5.4	378	1958 1959	1 3	5550 7747	6.3 5.0	347 384	1 1	5010 7990	270 419		1	5036 271
490707	1	3	7313	5.7	419	1957 1958 1959	1 1 1	6210 7460 8270	5.1 5.7 6.2	316 420 514						
492137	16	25	7210	5.2	374	1956 1957 1958 1959 1960	5 5 10 5 2	7657 8244 7578 7578 5780	5.8 4.6 5.4 5.2 5.6	441 397 409 392 207	1 2 4 3 2	8240 7420 7615 7273 12400	449 372 379 405 737		1 2	8611 443 8431 415
493054	24	51	6957	5.1	351	1956 1957 1958 1959 1960	8 14 13 14 2	7084 6855 7542 8046 6280	4.9 5.2 5.3 5.0 4.0	349 354 391 397 253	6 10 9 8	7000 7067 8049 8064	364 356 411 420		6 9	8142 422 7618 388
493850	1	1	6560	6.2	407	1959	1	6560	6.2	407	1	6000	339		1	7129 392
496820	4	10	8548	5.0	425	1958 1959	6 4	9167 7238	4.9 5.0	450 358	2 3	8210 8113	420 407		3	8310 427
497361	23	43	7998	4.9	390	1956 1957 1958 1959 1960	4 4 14 18 3	6970 9223 8103 8037 6797	5.3 4.9 4.8 4.9 5.1	362 443 388 394 341	4 3 10 13 3	6800 6410 7095 8222 9047	346 324 381 405 429		4 3 2 13 3	7374 386 6642 341 6355 346 8607 423 8284 406
497576	57	88	7951	5.2	414	1956 1957 1958 1959 1960	1 7 31 37 12	6480 8573 8266 8035 7165	5.8 5.2 5.1 5.4 5.0	378 436 416 431 355	1 3 17 27 6	7830 6187 7604 7759 8097	386 311 376 398 391		1 3 2 23 7	8371 459 7891 408 6715 353 8555 414 8119 404
497599	6	9	9123	4.9	449	1956 1959 1960	1 7 1	10100 9091 8360	4.3 5.0 4.9	436 459 412	1 4 1	8850 7725 7790	453 400 423		4 1	8859 458 7129 376
497929	5	8	7592	5.3	397	1956 1957 1958 1959	1 1 4 2	8140 7500 7355 6750	4.6 5.6 5.5 5.6	375 423 399 391	1 1 2 1	6620 7360 7370 5920	346 417 388 340		1 1 1	7695 391 7837 438 7565 399
499207	6	15	9738	6.1	595	1958 1959	6 7	9807 9572	5.9 6.3	582 597	2 6	9230 9135	523 514		2 6	9221 526 10202 582
500215	17	18	6824	5.2	357	1959 1960	11 7	7402 6294	5.2 5.3	385 326	7 3	7729 8160	406 411		6 4	8579 451 8764 446
502114	15	17	8431	5.2	439	1958 1959 1960	2 9 6	9220 8510 8213	5.3 5.1 5.4	490 435 437	1 6 4	7410 7568 6165	416 395 350		6 4	8172 439 7990 432
504455	1	2	7465	5.7	421	1956 1957	1 1	7710 7220	5.5 5.8	422 419					1 1	8764 477 8273 446
505549	3	4	7430	4.6	348	1959	4	7085	4.6	326	3	7743	463		3	8553 440
506697	5	5	8144	5.3	426	1959 1960	4 1	7535 10570	5.3 4.5	413 477	4 1	6890 9480	392 457		4	7674 423
507867	3	4	7362	5.5	409	1958 1959 1960	1 2 1	9750 6660 4710	5.6 5.6 5.6	547 372 262	1 2 1	8960 7530 6510	453 395 314			
508176	1	3	7753	4.9	382	1958 1960	2 1	7380 8500	5.0 4.8	367 412	1 1	8240 7600	380 402		1	8404 412
508399	47	61	8210	5.1	419	1957 1958 1959 1960	4 14 30 13	7723 8905 8067 8922	5.1 5.0 5.1 5.1	396 433 408 460	2 9 26 0	5840 7512 7717 7290	272 374 399 370		2 1 24 8	7739 348 8230 411 8197 417 8279 429
510322	6	11	7068	5.4	376	1958 1959 1960	4 6 1	7790 7602 4230	5.8 5.1 5.3	455 361 274	2 4 1	7890 7945 7400	423 406 386		4 1	8461 452 8753 461
517080	1	1	6840	5.8	394	1957	1	6840	5.8	394						
517081	4	7	7291	5.5	402	1955 1956 1957 1958	1 2 3 1	6580 7145 7883 7110	5.7 5.6 5.3 5.5	376 401 421 393	1 1 1	7070 7200	351 410		1 1	7695 391 7968 437
520051	1	1	10950	5.4	589	1959	1	10950	5.4	589	1	9230	549		1	10202 582



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MEAN MILK LB.	AVERAGE FAT LB.
JERSEY																
520690	2	2	5345	5.4	284	1960	2	5345	5.4	284	2	4855	250	2	7685	405
522014	2	4	7688	5.7	445	1954	1	6210	5.3	330	1	8360	415	1	8295	402
						1955	1	9060	6.8	622	1	9060	446	1	8995	449
						1959	2	7730	5.3	413	1	7260	366	1	8110	427
529355	1	2	8785	5.3	464	1958	1	9640	5.2	499	1	10860	569	1	7129	372
						1959	1	7930	5.4	428	1	6900	370			
534119	1	2	7880	5.3	421	1958	2	7880	5.3	421	1	7340	400			
534366	3	5	7420	4.8	349	1956	1	4220	4.8	204				1	7129	372
						1958	1	11340	5.9	439						
						1959	3	8247	5.2	416	1	7360	399			
534381	3					1959	3	5110	5.5	285	2	6695	379	2	7505	400
534600	9	9	6237	5.4	339	1959	4	6918	5.5	360	3	7667	417	3	8582	450
						1960	5	5692	5.3	307	3	8563	417	4	8862	455
537666	1	1	4730	5.2	246	1959	1	4730	5.2	246	1	8030	362	1	7238	370
542648	1	1	4000	5.9	238	1959	1	4000	5.9	238	1	15100	575			
545277	1	2	13200	5.3	677	1957	1	16690	4.7	791	1	5330	276	1	8066	413
						1958	1	9710	5.8	562	1	8360	460			
546648	6	6	7868	5.2	406	1959	5	7866	5.2	405	5	8046	419	5	8110	427
						1960	1	7880	5.2	410				1	8415	450
548280	1	1	8880	5.2	459	1959	1	8880	5.2	459	1	7670	380	1	9832	450
550506	16	25	7806	5.0	389	1957	6	6793	5.2	352	3	7233	367	4	8221	409
						1958	10	8687	4.8	419	6	7812	396	1	5962	324
						1959	6	7847	5.1	394	4	7698	409	4	8336	427
						1960	3	7407	5.2	381	2	8305	416	2	8459	391
550723	2	2	7355	5.1	374	1959	2	7355	5.1	374	1	7460	340	1	8012	384
552060	1	1	8360	5.5	464	1959	1	8360	5.5	464	1	8480	407	1	9632	456
553507	1	1	8750	4.9	429	1959	1	8750	4.9	429	1	8360	425	1	8110	427
557267	4	9	8701	5.4	470	1958	4	9905	5.5	543	2	8390	462	3	9280	469
						1959	4	9275	5.4	502	4	8678	450			
						1960	1	7190	5.2	371	1	5130	278	1	9450	509
557268	3	8	7260	5.7	413	1958	2	9900	5.8	575	1	9760	541	3	8695	458
						1959	5	6280	5.6	351	3	7907	418			
						1960	1	8660	6.1	524	1	7860	417	1	8240	432
557328	1	1	10630	4.5	480	1959	1	10630	4.5	480	1	10270	547	1	9865	520
561487	1	2	8490	5.7	484	1959	1	8640	5.7	497				1	8110	427
						1960	1	8340	5.6	471						
561488	1	2	7375	5.0	368	1959	1	6870	5.0	345	1	7250	370	1	8110	427
						1960	1	7880	5.6	391	1	7220	390	1	8240	432
562352	7	10	8683	5.3	457	1958	3	9447	5.1	479	1	7710	392	2	8328	446
						1959	4	9195	5.2	475	2	8630	467			
						1960	5	8143	5.3	435	3	7713	387	3	7423	386
567397	10	13	6905	4.8	331	1959	10	7608	4.9	365	5	8632	440	5	8537	447
						1960	3	6070	4.4	274	1	11290	576	1	8829	447

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	HERD AVERAGE FAT LB.
BROWN SWISS																
43108	10	35	10742	3.9	419	1947	7	10911	4.0	434	1	13630	451			
						1948	5	10886	4.0	434	1	11140	342			
						1949	5	10748	4.0	435						
						1950	5	12290	3.8	463	1	13560	543			
						1951	3	10510	3.9	412	1	13560	543			
						1952	3	11647	3.8	440	2	15275	547			
						1953	2	11235	3.9	438	1	13280	504			
						1954	1	11720	3.6	417	1	16050	596			
						1955	2	11640	3.8	437	2	12645	501	2	11870	468
						1956	2	9360	3.9	362	2	11570	474	2	10802	427
44741	1	2	9145	4.0	366	1948	1	8510	3.8	323						
						1949	1	9780	4.2	409						
46379	2	3	12060	4.1	491	1955	1	13200	4.1	542	1	12460	515			
						1957	1	11220	4.2	471	1	11280	474	1	11696	484
						1959	1	11910	4.0	475	1	11670	473	1	12263	502
48098	1	4	10610	4.2	443	1954	1	11840	4.3	507	1	13080	514	1	7728	313
						1955	1	10700	4.4	472	1	13060	522	1	12797	534
						1956	1	8700	3.9	342				1	10050	416
						1957	1	11200	4.0	450				1	10671	422
51675	2	2	10175	4.2	419	1953	1	9000	4.2	377						
						1954	1	11350	4.1	460						
51890	6	8	10553	4.0	412	1955	1	9930	4.3	425	1	10700	472	1	12797	534
						1956	2	8520	4.0	336						
						1957	2	7800	4.0	311				1	11957	486
						1958	2	15680	3.8	590						
						1959	1	10010	3.9	392	1	5980	255	1	9461	376
53913	1	1	11650	4.2	489	1954	1	11650	4.2	489						
58918	2	7	8969	4.3	374	1954	2	9420	4.3	389	2	11255	442	2	8368	339
						1955	1	12350	4.3	535	1	10700	472	1	12797	534
						1956	1	11190	3.9	438	1	10660	416	1	10050	416
						1957	1	12550	3.9	492	1	11900	472	1	10671	422
						1959	1	11240	3.6	431	1	13550	522	1	10878	414
						1960	1	8910	3.5	315	1	9590	366	1	10726	417
59455	1	2	9510	3.8	362	1958	2	9510	3.8	362						
59699	8	20	10533	4.3	452	1955	1	8700	4.1	353	1	8570	325	1	8753	343
						1956	1	8340	3.8	316	1	9160	375	1	8589	346
						1957	3	10323	4.3	445	2	9425	390	2	10649	450
						1958	7	10133	4.1	417	3	10563	423			
						1959	7	11137	4.5	498	5	11370	453	5	11421	460
						1960	1	12020	4.5	540	1	12850	501	1	13342	547
59936	2	5	9769	4.1	392	1956	1	8370	4.0	332	1	4930	173	1	8589	346
						1957	2	9420	4.1	387	1	11310	462	1	9341	374
						1958	1	10050	4.2	424						
						1959	1	13030	3.8	491						
61563	2	2	6115	4.2	266	1955	1	8540	4.5	386	1	9370	352	1	8001	299
						1956	1	3690	3.9	145						
62834	1	3	12177	4.6	559	1958	2	12700	4.6	579	1	11810	483			
						1959	1	11130	4.7	518	1	12190	507	1	12263	502
64541	9	18	10433	4.0	414	1956	2	9520	3.6	328						
						1957	5	11876	3.9	470	2	10735	442	3	11779	474
						1958	7	10763	3.9	425	1	9810	396			
						1959	3	10263	3.9	400	2	11805	459	2	12105	472
						1960	1	2700	4.5	122	1	10268	423	1	10268	423
64773	9	18	10203	4.4	448	1954	2	12540	4.4	547	2	12350	535	2	7728	313
						1955	1	10910	4.3	467				1	12797	534
						1956	1	8730	4.2	365	1	11070	426	1	10050	416
						1958	10	9681	4.3	415	5	9948	386			
						1959	3	10833	4.5	483	3	11210	459	3	10362	419
						1960	1	12080	4.3	521	1	10460	441	1	10649	457
64837	8	12	11030	4.1	449	1955	1	9920	4.0	404	1	7920	390	1	10083	386
						1956	4	11170	4.2	471						
						1957	3	11403	4.0	455	2	10070	420	2	11957	436
						1958	3	13570	3.8	517						
						1959	1	13880	3.8	524						
66102	2	3	9180	3.9	353	1958	2	8690	3.7	320						
						1959	1	9670	4.0	386	1	3720	162	1	10148	426
66741	5	11	8796	3.9	341	1954	2	10245	4.0	407	1	10190	379	1	8567	344
						1955	1	10100	3.5	354	1	9400	379	1	8753	343
						1957	4	8268	3.8	311	1	8160	339	1	9341	374
						1958	2	11240	3.9	437	2	11140	452			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY MILK LB.	HERD AVERAGE FAT LB.
BROWN SWISS																
						1959	1	10650	4.0	423	1	10210	413		1	9461 376
						1960	1	9550	4.1	389	1	11730	507		1	10649 437
69653	1	3	14490	3.8	550	1958	2	14350	3.8	546						
						1959	1	14770	3.8	537						
69978	1	2	2160	4.5	97	1958	2	2160	4.5	97	1	9190	356			
70012	11	25	10474	4.0	413	1955	2	9870	4.3	422	2	7740	270		2	8753 343
						1956	3	7693	4.0	309					2	8589 346
						1957	5	9814	4.0	388	2	10025	400		2	9341 376
						1958	10	11975	4.0	475	3	11583	476			
						1959	4	9555	4.2	397	4	10863	457		4	11563 471
						1960	1	13500	3.8	510						
71489	37	62	10947	3.8	411	1954	2	11855	3.4	399	2	10855	419		1	9657 361
						1955	5	9922	3.9	388	4	10950	416		3	10577 411
						1956	11	10269	3.7	380	11	9107	350		11	10693 412
						1957	6	12765	3.9	491	5	10274	393		5	10501 404
						1958	20	11301	3.8	424	9	10574	403			
						1959	12	10988	3.8	413	6	11958	460		5	11489 459
						1960	6	11135	3.7	416	5	10988	434		5	11144 443
72394	1	2	6290	4.1	260	1959	2	6290	4.1	260	1	11920	485		1	10995 447
75521	9	17	8933	4.2	377	1956	1	7760	3.9	302	1	10000	360		1	11728 451
						1957	2	7265	4.1	295						
						1958	7	9473	4.2	401	1	11730	438			
						1959	5	11214	4.2	468	1	12830	483		1	12709 495
						1960	2	11060	4.3	471	1	12140	473		1	12655 522
76059	2	6	10329	4.7	488	1955	1	13080	4.7	619	1	11310	472		1	10660 436
						1956	1	9110	4.6	422	1	11560	475		1	10671 451
						1957	1	6320	4.7	296						
						1958	3	10373	4.7	488	2	12345	500			
77775	4	4	9593	4.3	416	1958	1	8470	4.3	363						
						1959	1	6840	4.2	284						
						1960	2	11530	4.4	509	1	7990	316		2	11228 476
78152	1	1	11420	4.2	479	1956	1	11420	4.2	479	1	6940	312		1	11009 421
78440	1	3	12803	4.1	524	1958	2	12890	4.2	537	1	11790	488			
						1959	1	12630	3.9	498	1	11760	498		1	12263 502
80699	2	2	11865	4.0	474	1959	2	11865	4.0	474	2	11565	483		2	10862 439
81652	4	8	12048	4.2	506	1958	4	11415	4.3	491	2	12400	516			
						1959	4	11008	4.2	499	4	12093	494		4	12593 496
82405	10	14	11276	4.2	469	1954	2	10845	4.1	440	2	10445	398		2	10546 410
						1955	1	11290	4.4	496	1	11420	476		1	11968 496
						1956	3	10750	4.3	467	2	12990	530		2	11794 498
						1957	4	10186	4.1	421	1	12600	500		1	10791 459
						1959	4	13183	4.1	549	2	12150	503		2	11107 455
82462	3	3	13293	4.2	560	1959	2	13205	4.4	574	2	12520	519		2	12961 523
						1960	1	13470	3.9	532	1	12870	527		1	12186 501
83625	4	5	14468	4.1	597	1959	4	14468	4.2	610	3	12777	523		3	13193 515
						1960	1	15540	3.9	605	1	12530	509		1	12186 501
85003	1	1	10330	3.8	394	1958	1	10330	3.8	394						
87681	4	5	11428	4.5	509	1959	5	10920	4.5	487	4	11545	481		4	12083 474
87721	1	1	12970	4.5	578	1957	1	12970	4.5	578	1	11650	484		1	10791 459
89585	17	31	11602	4.0	461	1957	1	8040	4.6	367						
						1958	13	13944	3.9	536	2	12700	486			
						1959	13	11363	4.0	453	4	11115	445		3	12262 484
						1960	4	10513	4.0	415	2	9490	358		2	10410 419
90092	2	3	9653	4.1	394	1955	2	10035	4.2	421	2	9965	389		2	9396 365
						1956	1	8530	3.8	325	1	9110	364		1	9145 372
91234	5	8	11805	3.8	443	1957	2	8240	4.0	327	1	9060	361		1	8829 353
						1958	1	8730	3.9	342	1	7570	315			
						1959	3	11737	3.7	431	2	11160	441		2	9718 397
						1960	2	14660	3.8	555	2	11875	493		2	11985 506
91609	1	1	14840	4.8	716	1959	1	14840	4.8	716	1	11790	498		1	12263 524
91856	4	7	9441	4.0	376	1958	5	11778	3.9	464	2	7915	300			
						1959	2	5820	4.2	243	2	11140	446		2	11151 430
92099	2	4	12249	3.7	452	1958	2	13280	3.9	513						
						1959	1	11390	3.6	405						
						1960	1	12760	3.7	469						
92222	1	2	9750	3.9	380	1957	1	8600	4.0	341						
						1959	1	10900	3.8	419						
93493	15	24	10386	4.0	418	1956	1	9850	4.2	411	1	11610	479		1	11790 500
						1957	5	9186	4.0	362	1	10580	403		1	9974 377
						1958	10	12174	4.0	489	1	12980	484			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	HERD AVERAGE FAT LB.	
						BROWN SWISS											
						1959	7	10604	4.1	430							
						1960	1	8180	4.2	347		2	12490	488	2	12709	495
94606	1	1	8300	4.3	355	1955	1	8300	4.3	355	1	9070	356	1	10617	421	
94773	5	8	12605	3.9	490	1958	2	12050	3.6	438	1	10940	463	1	8949	366	
						1959	4	12063	3.8	464	4	10775	430	4	10666	456	
						1960	2	13276	4.0	533	2	12090	513	2	11990	473	
96330	1	2	7330	3.5	253	1958	2	7330	3.5	253	1	8240	305				
99438	9	14	10675	4.2	442	1956	1	12970	4.6	602							
						1957	3	8633	4.0	347	1	7870	315	1	8829	353	
						1958	5	10732	4.4	469	2	11790	480	1	9647	397	
						1959	3	10230	4.2	423	2	12115	506	2	11685	490	
						1960	2	12930	4.1	521	2	12900	517	2	11990	493	
100513	2	2	10515	4.2	436	1959	1	9440	4.2	398							
						1960	1	11590	4.1	474	1	14550	554	1	11990	493	
101158	20	27	11529	4.0	451	1956	2	10755	3.7	388	2	10430	389	2	11728	451	
						1957	3	8900	4.0	346	1	9000	364	1	9974	377	
						1958	6	12088	4.1	491	2	10915	430				
						1959	11	11921	3.9	463	7	10203	395	3	12401	490	
						1960	5	13178	4.0	519	1	9840	405	1	10301	419	
101807	1	3	10167	3.8	391	1958	2	10600	3.8	404							
						1959	1	9300	3.9	364							
102187	1	3	10053	3.7	376	1958	2	10690	3.7	397							
						1959	1	8780	3.8	333							
102994	6	6	11112	4.0	432	1959	5	11926	3.9	460	3	10537	432	3	11816	472	
						1960	1	7030	4.1	288							
103297	2	4	9449	4.2	400	1958	2	2260	4.1	93							
						1959	1	13056	4.2	542							
						1960	1	13040	4.3	557							
106794	1	2	9765	4.2	413	1959	1	8020	3.9	314	1	9880	411	1	10148	426	
						1960	1	11510	4.4	511	1	10610	456	1	11009	458	
107291	1	1	13880	4.0	561	1959	1	13880	4.0	561	1	12650	496	1	13189	509	
109191	4	5	12505	3.7	468	1959	4	12598	3.5	447	3	11517	460	3	11946	481	
						1960	1	8740	4.2	363							
109586	1	3	9880	3.7	364	1959	2	10580	3.7	387							
						1960	1	8480	3.7	317							
117125	2	2	12580	3.9	488	1957	1	10000	3.8	383							
						1959	1	15160	3.9	593	1	13090	517	1	13036	522	
119330	1	1	13510	4.1	561	1959	1	13510	4.1	561	1	11900	482	1	11107	455	
120226	2	4	9055	4.4	397	1958	2	10920	4.4	481							
						1959	1	7110	4.4	316							
						1960	1	11160	4.2	472							
121214	1	1	10480	4.2	443	1960	1	10480	4.2	443	1	12890	497	1	13701	531	

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR									
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK TEST LB. PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK TEST LB. PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. LB.	MP. LB.	AV. LB.	YEARLY RECORDS NO.	HERD LB.	AVRAGE LB.
M. SHORTHORN															
17915	1	2	8265	3.8	315	1955	1	8510	3.9	329					
						1956	1	8020	3.7	300					
21366	1	1	6200	3.8	238	1957	1	6200	3.6	238					
22359	3	5	10932	3.7	406	1957	1	9750	3.9	379	1	9750	367	1	8535 312
						1958	2	12840	3.7	468	1	10700	387		
						1959	1	7800	3.7	288					
						1960	1	12610	3.6	455	1	11100	396	1	9668 342
48767	2	2	11185	3.8	423	1959	2	11185	3.8	423					
73980	1	1	11040	4.4	485	1958	1	11040	4.4	485	1	8850	357		
170851	2	2	14985	3.7	543	1959	1	14240	3.9	554					
						1960	1	15730	3.4	531	1	12250	438	1	9668 342
2213443	1	1	7400	3.4	249	1960	1	7400	3.4	249	1	8680	295	1	9941 346
2437791	1	1	7320	4.5	329	1957	1	7320	4.5	329	1	8750	417		



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONC. LB.	TEMP. LB.	AV. YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
RED OANE																
28	5	5	8944	4.0	355	1958	1	10370	3.7	387	1	9900	370			
						1959	2	9210	3.9	355	1	9050	345			
						1960	2	7965	4.2	340				1	12633	492
29	6	9	10815	4.1	440	1957	2	9865	4.3	423	1	10190	404	2	10454	400
						1958	4	11178	4.1	446	2	10400	427	3	12404	471
						1959	3	11790	3.9	456	2	11405	401	2	11630	434

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY HLTD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
AYRSHIRE																
64660	7	21	7239	3.9	280	1951	1	8130	4.4	360	1	9940	396			
						1952	3	7450	4.1	305	1	9140	372			
						1953	4	8290	4.0	330	1	11060	434			
						1954	5	6760	3.9	266	1	10890	426			
						1955	3	7857	3.4	268						
						1956	2	7950	3.4	269						
						1957	1	6360	3.5	225						
						1958	1	8330	4.3	358	1	11740	428			
						1959	1	7860	4.0	311	1	8570	357	1	7935	315
83165	1	3	8357	4.0	335	1954	1	9390	3.9	365	1	8310	303	1	8698	354
						1955	1	8160	4.1	332	1	7590	302	1	8993	350
						1956	1	7520	4.1	308	1	7760	297			
84598	2	3	10338	4.2	425	1959	2	10965	4.1	447	2	10935	465	1	11707	475
						1960	1	10070	4.1	415	1	8750	381	1	11216	471
85982	1	1	8500	4.4	372	1960	1	8500	4.4	372	1	9510	384			
86779	23	39	7611	4.0	309	1954	7	8254	4.3	352	6	9375	377	6	9883	400
						1955	6	7588	4.0	302	4	7885	309	4	8516	322
						1956	5	7266	4.0	295	2	8095	309			
						1957	5	9392	4.0	381	2	9315	351	2	8797	351
						1958	7	7576	4.0	304	6	7630	296	3	8749	356
						1959	7	6587	3.7	244	5	8668	346	6	8387	356
						1960	2	5965	3.9	227	2	7750	302	2	8393	327
89811	1	5	10630	4.5	473	1953	1	11210	4.6	517	1	7990	384	1	8033	386
						1954	1	10620	4.3	455	1	8710	401	1	8655	407
						1955	1	9190	4.6	420	1	9910	424	1	8567	387
						1956	1	11070	4.5	497	1	10720	452	1	8775	396
						1957	1	11060	4.3	477	1	10170	459	1	9450	409
90323	1	1	4930	3.6	179	1955	1	4930	3.6	179	1	5900	223	1	7041	263
90327	1	2	8545	4.1	350	1953	1	9220	4.2	392						
						1954	1	7870	3.9	307						
91883	1	1	7250	4.2	308	1960	1	7250	4.2	308				1	11216	471
92173	4	5	5639	4.0	227	1952	1	6720	4.0	267	1	8670	354			
						1953	1	6550	4.0	260	1	9870	341	1	10290	358
						1955	1	5410	4.2	230	1	8470	358	1	8491	340
						1959	1	4490	3.8	172	1	7220	285	1	7739	314
						1960	1	3260	3.8	125	1	6710	287	1	6889	282
92422	16	21	10635	4.4	470	1958	3	10235	4.2	438	3	11103	440	1	9810	403
						1959	11	10474	4.5	470	8	9824	395	7	10042	409
						1960	7	11610	4.5	527	3	9780	419	7	10002	424
94852	4	7	9993	4.2	417	1958	1	11670	3.6	418	1	10480	412			
						1959	4	10008	4.2	424	4	10333	416	3	8727	347
						1960	2	8750	4.4	381	1	7250	308	1	11216	471
95368	9	19	7972	3.8	303	1955	2	7845	4.0	310	2	9055	357	2	9014	358
						1956	2	8230	4.0	324	1	9920	383			
						1957	3	8587	3.8	323	3	9653	369	3	9047	357
						1958	6	7287	3.8	276	6	8968	349	1	8197	331
						1959	4	9463	3.9	365	2	9640	372	2	9243	365
						1960	2	7550	4.0	303	1	6420	276	1	6689	287
95443	1	1	10250	4.2	429	1960	1	10250	4.2	429	1	9260	375			
96189	2	2	10440	4.2	437	1960	2	10440	4.2	437	2	9695	427	2	10501	452
96526	1	1	6690	3.8	254	1958	1	6690	3.8	254	1	7170	245	1	6900	238
102855	3	3	6923	4.4	309	1956	1	5620	4.2	233	1	10420	425			
						1957	1	8520	4.7	402	1	9090	385	1	9952	410
						1958	1	6630	4.4	293	1	12020	439			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
148228	1	1	8520	4.9	421	1947	1	8520	4.9	421						
189889	5	9	7630	5.1	389	1947	2	7625	5.3	399						
						1948	2	8820	5.2	454						
						1949	3	7370	4.9	361						
						1950	2	7425	5.4	401						
192924	11	25	6941	4.8	333	1947	22	7165	4.7	338						
						1948	2	8295	4.3	360						
						1950	1	6390	4.2	266						
197999	4	5	8134	4.8	382	1947	1	8120	4.8	386						
						1948	2	8510	4.6	390						
						1949	1	9296	4.7	435						
						1952	1	7000	4.9	340						
199132	4	15	6657	4.9	328	1947	9	6619	4.9	327						
						1948	2	6855	4.8	336						
						1949	1	9190	4.9	453						
						1951	1	7180	4.5	325	1	8000	374			
						1952	1	7690	4.7	358	1	7270	344			
						1953	1	7430	4.6	345	1	8210	384	1	7521	352
199865	6	12	6080	4.7	287	1947	10	6216	4.7	291						
						1948	2	6500	4.5	288						
201423	1	5	7570	4.2	319	1947	2	7740	4.3	330						
						1948	1	8220	4.5	367						
						1950	1	6340	4.1	257						
						1951	1	7810	4.0	311						
203591	2	15	7363	5.0	362	1947	5	6908	5.1	350						
						1948	2	8655	5.1	405						
						1949	2	5910	5.2	303	1	6900	335			
						1950	2	8090	5.1	414	1	7060	344			
						1951	1	8390	4.4	372	1	7000	334			
						1952	1	7700	4.8	368	1	8090	389			
						1953	1	11040	3.6	395	1	7400	353	1	8502	405
						1954	1	7060	4.7	330	1	6840	344	1	8295	397
207850	3	9	8094	4.6	370	1947	5	8028	4.5	362						
						1948	1	8460	4.6	391						
						1951	1	7886	4.5	358	1	7170	336			
						1952	1	7560	4.9	370	1	7730	379			
						1953	1	8090	4.6	374	1	7050	345	1	7532	376
208165	1	1	8340	4.2	353	1947	1	8340	4.2	353						
209349	10	25	6825	4.9	328	1947	6	6893	5.2	364						
						1948	2	9185	4.6	417						
						1949	2	4660	5.2	241						
						1950	2	9315	4.6	419	1	9930	413			
						1951	4	6400	4.2	265	2	8130	350			
						1952	3	6743	4.5	299	3	7070	326			
						1953	1	5630	4.8	269	1	6260	305	1	6453	305
						1954	2	7400	4.5	324	2	6045	297	2	6982	323
						1955	1	5520	5.0	278	1	10010	368			
						1956	2	9150	4.6	422	1	7020	319			
212910	1	2	6330	5.3	332	1947	1	6940	5.4	372						
						1948	1	5720	5.1	291						
213597	2	3	8323	4.6	383	1947	1	7400	4.5	335						
						1949	1	9010	4.6	418						
						1950	1	9460	4.7	443						
214348	6	15	7704	4.8	360	1947	11	7471	4.8	357						
						1948	1	8530	5.2	446						
						1949	1	8510	5.4	459						
						1950	1	8120	5.2	423						
						1952	1	7800	5.1	396						
217016	7	30	8237	4.8	396	1947	1	8460	5.1	430	1	7710	279			
						1948	1	8600	5.2	449	1	14220	553			
						1949	5	8500	4.8	411	3	9407	408			
						1950	5	8744	4.7	413	3	9037	447			
						1951	5	7920	4.6	380	4	8308	412			
						1952	2	9050	5.0	449	2	8800	450			
						1953	2	7850	4.8	374	2	7450	372	2	8153	414
						1954	4	7490	5.0	373	4	8160	398	4	8559	400
						1955	2	8230	4.8	395	2	8045	377	2	9385	403
						1956	2	10010	4.4	434	2	9030	411	1	8687	416
						1957	1	7510	4.2	316	1	6460	307	1	7728	373
218782	1	2	8390	4.4	365	1953	1	8260	4.5	371	1	9140	385			
						1954	1	8520	4.2	359	1	6920	285	1	10213	434
219801	3	10	7883	4.3	336	1948	3	8647	4.4	379						
						1949	3	6917	4.3	298						
						1950	1	8900	4.1	367						
						1951	1	9130	4.1	371						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP. AV. YEARLY HERD AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	
GUERNSEY																	
						1952	1	10050	4.0	399							
						1953	1	8870	3.6	322							
222983	1	7	9341	4.2	391	1947	3	8560	4.3	370	1	8310	381				
						1949	1	10350	4.3	442	1	8040	392				
						1950	1	11280	4.2	470	1	8560	390				
						1951	1	8386	4.0	335	1	7330	344				
						1952	1	9700	3.9	381	1	8340	402				
224915	26	51	6297	5.2	327	1947	20	6274	5.1	321							
						1948	11	6554	5.4	355	1	7450	407				
						1949	7	6731	5.3	354							
						1950	4	6878	5.4	377	1	11740	470				
						1951	3	7233	5.6	406	1	9090	414				
						1952	2	7075	5.4	381	1	8540	426				
						1953	1	7430	5.2	387	1	7740	383	1	8131	414	
						1954	2	7530	5.1	386	2	7490	375	2	8116	410	
						1955	1	9360	5.2	490	1	8700	395	1	7521	378	
224997	2	3	9900	4.9	477	1947	2	9920	5.3	517							
						1951	1	9880	4.4	437							
225965	2	3	7198	5.4	381	1947	2	6520	5.5	355							
						1940	1	8650	4.7	410							
227790	14	31	6091	5.1	312	1947	9	5808	5.0	293							
						1948	5	6292	4.9	308							
						1949	5	6034	5.2	313	2	9400	395				
						1950	5	6706	5.3	354	2	7925	382				
						1951	4	6833	5.0	343	2	7395	356				
						1952	2	6315	5.5	348	2	6525	316				
						1953	1	5360	5.1	275	1	7670	372	1	5385	270	
229350	14	39	8562	4.1	343	1947	24	9187	4.0	364	2	11430	419				
						1948	4	8713	4.2	361	2	10150	419				
						1949	2	10565	3.7	382							
						1950	3	8963	3.8	344	1	9750	407				
						1951	2	8350	4.1	339	1	10480	395				
						1952	2	9135	4.0	364	1	9510	372				
						1953	1	8800	4.2	370	1	8890	352	1	9494	372	
						1954	1	12450	4.0	504	1	10490	421	1	9429	366	
230929	20	48	7922	4.7	371	1947	3	9173	4.6	427							
						1948	5	7504	4.5	334	1	10710	325				
						1949	9	8292	4.7	385	2	10530	439				
						1950	6	8887	4.7	415	2	10785	479				
						1951	3	7953	4.6	363	2	9030	339				
						1952	6	8918	4.7	418	5	8620	390				
						1953	6	8082	4.6	373	6	8343	393	3	8826	420	
						1954	5	8234	4.6	375	5	8728	387	4	7990	367	
						1955	1	8810	4.2	373	1	8400	390	1	8829	451	
						1956	2	7740	4.7	359	2	7635	360				
						1958	1	8100	4.6	372	1	7330	347	1	7859	374	
						1959	1	6620	4.4	291	1	7240	342	1	7140	337	
233113	19	42	7239	5.0	363	1947	2	7140	5.8	410							
						1948	6	8315	5.0	417							
						1949	5	8006	5.2	413	2	8645	441				
						1950	9	6747	4.9	334	2	8535	404				
						1951	8	6830	5.0	340	2	7805	364				
						1952	6	6362	5.0	318	5	7926	361				
						1953	5	6390	5.0	314	5	8750	390	5	8230	375	
						1954	1	8450	4.9	417	1	8190	379	1	8110	379	
233908	6	19	6786	5.2	348	1947	7	6591	5.2	346							
						1948	3	8477	5.1	432	1	10780	381				
						1949	4	6958	5.3	351	1	10710	409				
						1950	1	11100	4.2	467	1	13300	441				
						1951	1	11210	4.4	491	1	12460	422				
						1952	1	11470	4.3	495	1	11940	438				
						1953	1	11306	4.2	479	1	11450	437	1	10824	365	
						1954	1	10580	4.6	482	1	12270	449	1	11500	410	
234813	6	16	6571	5.0	325	1947	5	6028	5.3	316							
						1948	4	6775	4.8	330	1	11270	448				
						1949	1	9000	5.1	455	1	11340	423				
						1950	3	8013	4.7	381	1	10250	380				
						1952	1	7950	5.1	403	1	10660	401				
						1953	1	7540	4.8	362	1	9160	353	1	9439	346	
						1954	1	8830	4.8	425	1	11910	444	1	10562	411	
234814	17	38	6854	4.9	331	1947	6	7488	5.1	376	1	6600	298				
						1948	1	7290	5.2	380							
						1949	6	6707	5.2	342	3	8057	385				
						1950	2	5145	5.8	299	2	8960	371				
						1951	4	6455	5.3	336	3	8960	373				
						1952	5	6544	4.9	317	5	7444	349				
						1953	3	7117	4.4	316	3	8453	396	2	8159	377	
						1954	4	7685	4.8	368	4	8030	357	2	7990	365	
						1955	3	8597	4.6	393	3	7647	340	3	7459	343	
						1956	2	7395	4.9	358	2	7765	375	1	8186	397	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
						1957	GULRNSEY															
							2	7355	4.6	337	2	9915	465	1	8044	374						
235626	3	12	8444	4.8	402	1949	2	8100	5.0	404	1	7940	391									
						1950	2	9105	4.7	425	1	8630	445									
						1951	2	8760	4.7	409	1	8230	400									
						1952	1	7970	4.9	392	1	8260	390									
						1953	3	8340	5.0	419	3	8927	452	2	9559	475						
						1954	2	9030	4.4	399	2	7965	394	2	8676	436						
237407	2	4	6900	5.2	357	1948	2	6330	5.4	339												
						1950	2	6870	4.8	330												
237865	2	2	9950	4.5	451	1946	1	9250	4.5	420												
						1950	1	10650	4.5	481												
239142	1	3	7657	4.6	354	1953	1	8180	4.6	374	1	7780	371									
						1954	1	7650	4.6	376	1	8370	409	1	8949	425						
						1957	1	6940	4.5	313	1	9770	453	1	8927	428						
240064	10	36	6280	5.1	317	1947	12	6204	5.1	314	2	6760	346									
						1948	6	6998	5.1	353	1	7190	368									
						1949	4	6568	5.1	335	3	7537	374									
						1950	5	7132	5.1	365	4	7523	359									
						1951	2	6605	4.9	325	2	7240	356									
						1952	3	6930	4.7	323	3	6900	324									
						1953	2	6455	4.9	314	2	7875	365	2	7434	355						
						1954	2	6730	4.6	309	2	7040	352	2	7537	361						
						240902	21	43	7060	4.8	334	1948	1	6780	4.8	324	1	15500	494			
												1949	9	7417	4.7	348	2	8600	405			
1950	11	6924	4.8	334	4							9773	434									
1951	7	7797	4.4	338	5							8318	387									
1952	6	7287	4.5	319	6							8040	382									
1953	6	7852	4.4	346	6							8457	402	3	8364	407						
1954	3	6127	4.8	296	3							7293	332	2	8230	392						
243382	29	83	7068	4.9	341							1947	6	6303	5.0	314	1	7960	348			
						1948	7	7284	4.7	339	2	8150	366									
						1949	13	6994	5.0	350	5	8642	390									
						1950	11	7384	4.8	350	7	8110	392									
						1951	13	7019	4.9	340	10	7831	359									
						1952	9	6417	5.0	318	8	8185	363									
						1953	7	7129	5.0	355	7	8019	359	7	7499	346						
						1954	7	7764	5.1	396	7	8094	365	7	8326	377						
						1955	4	6400	4.9	309	4	7730	361	4	8050	376						
						1957	4	8043	5.0	405	4	9548	419	3	8837	384						
						1958	1	9330	4.8	453	1	9190	438	1	7837	374						
						1959	1	8900	4.8	426	1	8600	407	1	8884	419						
						243801	3	13	7801	5.2	405	1947	3	8273	5.2	438						
												1948	1	12020	5.0	604						
												1950	1	10960	5.3	576	1	8440	378			
1951	2	8015	5.2	421	2							8520	400									
1952	3	7970	5.1	404	3							6617	333									
1953	3	7967	5.1	403	3							7700	361	3	7339	349						
245207	5	12	6166	4.4	272	1949	2	5525	4.3	237												
						1950	2	6890	4.2	290												
						1951	2	6490	4.9	315	1	8290	368									
						1952	1	6260	5.2	327	1	9290	428									
						1953	1	5480	5.2	284	1	8070	386									
						1954	1	6210	5.1	315	1	9500	440									
						1955	1	6230	4.9	308	1	7640	350									
						1956	1	6810	5.0	339	1	8720	351									
						1957	1	3860	4.6	178	1	8310	392									
245978	7	16	7719	5.0	384	1950	5	8482	4.9	414	2	9940	513									
						1951	3	8483	5.3	445	1	10110	521									
						1952	2	9400	5.3	486	2	9115	479									
						1953	3	7523	5.2	392	3	8690	432	3	8705	433						
						1954	2	9230	5.1	465	2	8680	449	2	9014	468						
						1956	1	6670	4.6	308	1	6640	307	1	7477	344						
246645	4	12	7550	4.9	368	1947	5	7376	4.9	358	1	7990	381									
						1948	1	7660	5.1	389												
						1949	2	8505	5.2	437	1	9750	446									
						1950	1	6980	4.5	315	1	9530	376									
						1951	1	6970	4.6	354	1	6490	305									
						1952	1	7300	4.3	314	1	8400	329									
247402	22	53	8202	4.5	366	1953	1	8820	4.6	410	1	9900	465									
						1949	1	9750	5.2	503	1	10860	532									
						1950	9	8530	4.6	383	5	8276	411									
						1951	11	8602	4.5	385	9	8213	385									
						1952	14	8237	4.6	375	13	8541	384									
						1953	9	8531	4.5	381	9	8624	382	7	8641	396						
247725	17	49	6852	4.9	336	1954	5	9066	4.3	391	5	8076	393	4	8486	400						
						1955	2	7975	4.2	334	2	6075	284	1	6278	279						
						1957	2	7045	4.3	300	2	9050	415	1	6671	308						
						1947	25	7288	4.9	357												
						1948	9	6873	4.6	321	1	8940	397									
						1949	10	7006	4.9	343	1	9240	416									
248345	17	38	6922	4.8	334	1950	4	7203	4.5	322	1	9390	424									
						1952	1	4120	4.4	182	1	8130	387									
						1947	7	6897	4.9	340												
1948	12	7115	4.7	338																		
1949	10	7080	5.1	356																		



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
						GUERNSEY										
						1950	6	8210	4.9	402						
						1951	3	8413	4.7	395						
248427	2	6	6934	4.4	298	1947	1	6840	4.9	335						
						1948	2	6785	4.5	299						
						1949	2	6855	4.4	293						
						1950	1	7480	3.6	267						
248483	6	28	7703	4.7	362	1947	2	7345	4.8	350	1	7090	293			
						1948	4	7665	4.6	364	3	7803	338			
						1949	3	7807	4.6	374	2	7975	351			
						1950	4	8278	4.7	387	3	7403	323			
						1951	2	8500	4.8	401	1	9520	455			
						1952	3	7447	4.4	332	3	7547	335			
						1953	4	8433	4.5	377	4	7393	329	3	7227	332
						1954	3	8277	4.7	388	3	7740	356	3	8401	377
						1955	2	8765	4.4	381	2	7660	345	2	8181	383
						1956	1	10100	4.5	456	1	8740	394	1	7794	346
249215	3	11	6457	4.1	262	1947	3	7383	4.0	292	2	6820	311			
						1948	3	6030	4.2	251	2	7815	361			
						1949	1	7750	4.4	341						
						1950	1	4590	3.9	180	1	5940	275			
						1951	1	4190	3.5	148						
						1952	1	3980	4.0	158	1	5250	263			
						1953	1	5170	3.8	198	1	6450	266	1	6257	266
249620	58	174	8004	4.9	386	1947	31	7361	4.9	358	4	9643	424			
						1948	15	7937	4.9	366	5	9013	436			
						1949	23	8222	4.7	367	6	8923	423			
						1950	18	8512	4.7	399	9	9177	417			
						1951	25	7633	4.8	366	16	8182	375			
						1952	17	7934	4.8	362	15	8301	389			
						1953	17	9152	4.8	436	17	9199	425	6	8252	378
						1954	13	8377	4.9	409	12	8258	388	10	8528	401
						1955	7	8926	4.7	419	7	8993	433	7	8212	398
						1956	4	9603	4.7	437	4	7463	340	1	6823	328
						1957	1	9400	4.4	412	1	9090	394	1	8033	367
						1958	1	8240	5.0	411	1	11100	537	1	11085	543
						1959	2	7130	4.9	351	2	8155	351	1	8077	341
250675	4	10	7158	4.8	341	1947	9	7930	4.7	369						
						1948	1	5650	4.3	250						
250676	21	87	7714	4.6	351	1947	18	9170	4.7	430	5	9650	420			
						1948	14	7576	4.6	344	4	8280	401			
						1949	9	7627	4.7	356	4	9160	398			
						1950	12	7586	4.7	357	6	7762	364			
						1951	9	7518	4.5	335	5	9172	387			
						1952	9	7666	4.6	349	7	0611	390			
						1953	9	7589	4.5	335	6	7865	377	5	7891	380
						1954	5	6060	4.6	276	2	7095	355	2	8257	349
						1955	2	7300	4.5	316	1	6480	324	1	0022	341
						1956	1	5510	5.1	283						
						1957	1	5880	4.6	273						
251765	4	9	8241	5.0	408	1947	9	7880	5.0	397						
252524	27	68	7097	4.7	332	1948	1	5780	5.3	306						
						1949	10	6574	4.8	311	4	8423	402			
						1950	13	7690	4.6	353	6	9380	450			
						1951	8	6919	4.9	330	7	8607	406			
						1952	11	7429	4.7	349	11	8055	361			
						1953	9	7920	4.7	375	9	8196	388	1	8796	417
						1954	9	7900	4.5	352	9	7984	370	3	8241	380
						1955	4	7590	4.5	348	4	7845	361	4	7949	374
						1957	1	8940	3.9	352	1	6940	307	1	7150	335
						1958	1	8770	4.4	384	1	8150	375	1	7521	343
						1959	1	6680	4.1	271	1	7230	348	1	9003	423
253901	1	1	7810	5.6	436	1947	1	7810	5.6	436						
253979	1	2	8155	4.4	353	1952	1	9150	4.4	400	1	6160	289			
						1954	1	7160	4.3	305	1	6720	324	1	6584	319
254482	7	18	8391	4.7	392	1947	1	6050	4.6	278						
						1953	5	9193	5.0	456	3	9647	445			
						1954	4	8543	4.7	400	4	7425	348	4	8121	370
						1955	4	9298	4.8	447	4	8353	368	4	8131	373
						1956	2	9885	4.8	473	2	8220	366			
						1957	3	8457	4.6	387	3	0130	375	3	8044	374
						1958	1	6930	4.6	316	1	8030	364	1	7859	374
254625	2	4	8449	5.2	446	1947	2	8880	5.0	450						
						1948	1	6870	5.1	350						
						1949	1	7580	5.0	381						
254753	2	5	8456	4.9	417	1947	2	8325	5.0	418						
						1948	1	8480	5.0	427						
						1949	1	10170	4.8	489						
						1950	1	7110	4.6	330						
256119	6	29	7628	4.7	355	1947	11	7399	4.8	352	2	8265	401			
						1948	5	7938	4.7	370	3	7270	324			

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
257582	47	107	6956	5.0	344	1949	4	6773	4.7	316	3	8290	396			
						1950	2	7135	4.6	330	2	9055	415			
						1951	3	7483	4.7	349	3	7717	357			
						1952	1	8060	4.5	363	1	8080	370			
						1953	2	7660	4.4	340	2	8055	374	2	7745	365
						1954	1	7540	4.4	335	1	6550	329	1	7913	370
						1949	11	6864	4.8	325	1	7700	358			
260741	14	53	7774	4.7	370	1950	20	7182	5.0	358	9	8520	391			
						1951	25	6954	5.1	352	17	8281	379			
						1952	17	7219	5.1	372	16	7953	375			
						1953	17	7464	5.1	380	17	7907	375	11	8489	402
						1954	10	7220	5.0	354	10	7789	366	7	8172	395
						1955	6	6903	5.0	347	6	7907	362	6	8569	391
						1956	1	9210	5.1	474	1	8210	394	1	10039	545
261644	6	15	7342	4.7	347	1948	1	9920	5.1	509	1	9670	443			
						1949	5	7398	4.8	354	1	15090	508			
						1950	10	7059	4.7	337	3	9543	409			
						1951	10	7479	4.8	363	3	8647	379			
						1952	3	6330	4.6	297	3	8817	384			
						1953	1	8330	5.0	419	1	8860	438			
						1954	1	7240	4.9	353	1	9320	416	1	10213	434
262384	1	1	4890	5.6	276	1955	1	10190	4.4	453	1	8864	425	1	8884	425
						1960	1	9860	4.7	468	1	9730	498	1	10769	560
						1947	4	7253	5.0	363						
						1948	2	7835	5.2	399						
						1950	3	7633	4.4	330	1	7470	329			
						1951	2	7080	4.2	291	1	7570	341			
						1953	1	6250	4.2	261	1	5910	282	1	6769	322
262790	10	22	7436	4.8	358	1954	1	8170	4.1	334	1	6050	290	1	5897	282
						1955	1	8160	4.5	369	1	6210	306	1	6867	330
						1956	1	7650	4.1	316	1	6820	320	1	6453	310
						1947	1	4890	5.6	276						
						1948	4	7423	4.8	358	1	10710	472			
						1949	3	7737	4.6	352	1	8380	425			
						1950	2	8265	5.0	412	1	9970	469			
264489	56	134	6944	4.7	325	1951	2	9635	4.4	423	1	9390	461			
						1953	2	8655	4.9	423	2	8580	401	2	8840	428
						1947	10	7983	4.5	354	1	10240	401			
						1948	11	6970	4.7	324	1	7010	328			
						1949	10	7100	4.8	340	3	7850	367			
						1950	12	7032	4.9	344	6	7645	353			
						1951	23	7034	4.8	337	15	7973	372			
266272	1	1	7920	4.4	346	1952	25	6822	4.8	324	24	7503	334			
						1953	20	7764	4.6	352	19	7970	366	18	7919	357
						1954	14	7047	4.6	317	13	7375	346	13	7851	365
						1955	5	7452	4.5	339	5	7256	345	5	7774	369
						1956	1	7460	4.5	318						
						1957	2	8610	4.6	392	1	9300	460	1	8666	426
						1958	1	7220	3.8	276	1	7930	385	1	9418	448
267510	2	7	7445	4.1	303	1952	1	7920	4.4	346						
						1948	1	9590	4.5	431	1	9750	416			
						1949	1	8710	4.5	392	1	9900	409			
						1950	1	8110	4.4	353	1	10080	387			
						1951	1	8490	3.9	334	1	8530	361			
						1953	2	6870	4.0	273	2	8990	352	2	9494	372
						1954	2	6350	3.4	214	1	10920	385	1	9429	366
268191	3	12	7900	5.1	399	1947	1	9920	5.4	321	1	11130	415			
						1948	3	8790	5.1	448	2	8075	347			
						1949	2	7725	5.1	392	2	8600	385			
						1950	2	8085	5.0	402	2	9470	386			
						1951	2	7655	4.8	369	2	9500	387			
						1952	2	6935	5.0	347	2	9265	359			
						1947	8	9475	4.8	450						
269867	7	16	9345	4.6	426	1948	2	10075	4.7	471						
						1949	1	6920	4.2	293						
						1950	1	11190	5.0	556						
						1951	1	9490	4.7	449	1	7610	422			
						1952	1	9970	4.7	471	1	7200	353			
						1953	1	8580	4.8	408	1	7900	405	1	9200	428
						1954	1	7480	4.9	369	1	10520	493	1	9178	456
271038	5	16	6660	4.6	312	1947	7	7231	4.9	359						
						1948	3	7683	5.0	392						
						1949	1	7110	4.9	349						
						1950	2	5920	4.6	276						
						1951	2	6520	4.7	306						
						1952	1	6040	5.0	299						
						1947	1	8740	4.2	367						
271040	2	3	8698	4.9	422	1948	1	8060	5.5	445						
						1950	1	9250	5.5	507						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
GUERNSEY																						
271646	14	36	8408	4.5	37.5	1947	13	8194	4.4	358												
						1948	3	7973	4.2	355												
						1949	6	8478	4.6	391	1	11880	509									
						1950	6	8687	4.5	394	2	8725	384									
						1951	3	8747	4.5	390	2	8435	384									
						1952	2	8360	4.6	392	2	8330	354									
						1953	1	8790	4.2	365	1	6040	293	1	6769	322						
						1954	1	7790	3.9	302	1	6460	324	1	5897	282						
						1955	1	8950	4.1	364	1	6670	313	1	6867	330						
271647	5	7	7267	4.5	326	1947	7	7053	4.6	319												
273331	49	110	7889	4.5	35.0	1950	1	7730	5.1	394	1	8970	449									
						1951	3	8963	4.5	391	1	8230	396									
						1952	21	8068	4.6	372	18	8503	378									
						1953	30	7653	4.6	360	26	8378	379	12	8876	399						
						1954	20	7882	4.6	367	19	7895	372	13	8478	402						
						1955	18	7629	4.6	355	15	8525	402	11	8302	394						
						1956	6	6992	4.6	410	4	8413	376	2	8551	442						
						1957	6	8450	4.4	372	5	8258	398	5	8646	427						
						1958	3	9887	4.9	477	3	8257	414	1	10246	487						
						1959	2	6340	4.5	285	2	7585	395	2	8437	435						
273849	10	48	7915	4.9	38.5	1947	6	8152	4.6	376	3	9127	383									
						1948	9	8232	5.1	422	5	8664	402									
						1949	5	7438	5.0	379	2	7150	307									
						1950	7	8589	4.9	417	5	8796	416									
						1951	6	8102	4.5	355	5	7850	350									
						1952	3	8663	4.7	418	3	6633	299									
						1953	5	8026	4.7	373	5	7578	337	4	6960	318						
						1954	4	7665	4.6	366	4	7516	327	4	7393	357						
						1955	2	7910	4.6	358	2	7235	356	2	7665	370						
						1956	1	10380	4.5	470	1	8290	406	1	7815	362						
						274911	6	20	6956	4.8	33.4	1949	1	7970	4.9	388						
												1950	4	6588	4.9	325	2	8385	414			
1951	2	6730	5.2	348	1							7740	398									
1952	2	5920	4.5	280	1							7630	368									
1953	2	7960	4.7	376	2							8525	395	2	8105	385						
1954	3	7637	4.7	362	3							7800	363	2	8050	352						
1955	3	7277	4.8	349	3							8207	398	3	7601	360						
1956	2	6945	5.0	343	2							7490	354	1	8186	397						
1957	1	7020	4.6	336	1	7430	367	1	7456	364												
275820	2	6	9765	4.5	43.3	1948	1	9300	4.2	391												
						1949	2	10935	4.5	462												
						1950	1	7130	4.6	344												
						1951	1	9540	4.7	447												
						1952	1	9080	5.2	469												
276283	19	39	7559	4.7	35.3	1947	22	7523	4.6	346												
						1948	7	7047	4.8	336												
						1949	3	6923	4.9	337												
						1950	3	7033	5.1	361												
						1951	1	8200	4.8	392												
						1952	2	9145	4.7	427												
						1953	1	8700	4.9	429	1	8240	386	1	8339	382						
276914	1	7	8571	5.3	45.2	1951	1	8340	5.1	426												
						1952	1	8650	5.1	442												
						1953	1	7920	5.7	449												
						1954	1	9060	5.1	461												
						1955	1	8580	5.3	457												
						1956	1	9610	5.2	502												
						1957	1	7840	5.4	427												
277302	5	7	7659	4.2	315	1947	7	7534	4.3	317												
279696	47	119	7580	4.7	35.4	1948	5	6942	5.0	346	1	9790	412									
						1949	12	7553	4.9	373	3	7487	370									
						1950	18	7846	4.8	378	10	8785	415									
						1951	25	7819	4.8	371	15	8581	408									
						1952	20	8196	4.8	389	17	8378	376									
						1953	18	8138	4.6	371	17	8598	408	9	8452	408						
						1954	8	8275	4.7	386	7	7830	362	6	8404	417						
						1955	5	8610	4.8	412	4	9028	397	4	8382	406						
						1956	8	8219	4.5	369	7	7661	358	2	7739	391						
279854	12	32	8490	4.6	38.5	1952	8	9498	4.6	433	8	8091	395									
						1953	8	7778	4.8	373	8	8743	421	5	8679	415						
						1954	6	8343	4.9	399	6	7830	391	6	8580	431						
						1955	6	7332	4.4	319	5	8234	382	5	7929	394						
						1956	3	9153	4.3	392	3	9400	432	2	8715	441						
						1957	1	11090	4.2	461	1	11060	554	1	9897	518						
281341	2	4	7498	5.2	38.7	1951	1	9820	4.8	467												
						1952	1	7760	5.6	435												
						1954	1	6570	5.2	344	1	7140	376									
						1955	1	5640	5.2	302	1	7960	390	1	7543	376						
281475	3	7	7997	4.3	34.8	1947	1	9070	4.8	436												
						1948	2	7720	4.3	328												

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONFLMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1949	1	9730	4.7	461						
						1950	1	7990	4.4	355						
						1951	1	8240	4.4	362						
						1952	1	7730	4.1	319						
282113	5	10	7733	4.6	355	1948	2	7385	4.8	349						
						1949	3	7573	4.6	340						
						1950	1	7160	4.9	354	1	10460	450			
						1952	2	7415	4.5	339	2	9105	389			
						1953	2	7750	4.8	370	2	8880	381	2	9031	379
282310	14	37	7636	4.6	351	1947	7	7953	4.5	353						
						1948	4	7173	4.7	331						
						1949	9	8043	4.6	368	2	8525	459			
						1950	5	8240	4.6	375	1	10250	519			
						1951	5	7552	4.6	367	2	7275	345			
						1952	3	6447	4.4	281	3	7773	366			
						1953	2	6915	4.4	304	2	7650	367	2	7947	382
						1954	2	5840	4.5	262	2	6935	328	2	7827	370
282316	3	7	6901	4.6	316	1950	1	8250	5.1	417	1	8010	387			
						1951	2	6510	4.7	303	2	8080	378			
						1952	2	5540	4.8	266	2	8560	399			
						1953	1	8790	4.0	352	1	7850	387	1	9003	421
						1955	1	6990	4.5	314	1	7890	393			
282730	3	16	11135	4.6	508	1947	3	10597	4.2	439	3	10080	492			
						1948	2	11420	5.0	559	2	10020	517			
						1949	1	10380	5.2	542	1	11180	533			
						1950	1	10600	5.1	542	1	9790	503			
						1951	2	12835	5.9	497	2	9485	450			
						1953	2	10915	4.8	523	2	9730	475			
						1954	3	10817	4.6	506	3	9733	459	3	9952	512
						1955	1	8830	4.5	396	1	13190	650	1	9603	481
						1959	1	11600	4.8	556	1	10220	490			
283091	12	27	7590	5.1	380	1953	6	7173	5.3	380	6	7235	361	3	8244	394
						1954	6	7392	5.0	364	6	7093	339	6	8249	396
						1955	5	8760	4.8	418	5	9550	407	3	8081	396
						1956	4	7723	5.1	390	4	8338	392	1	9439	477
						1957	3	8067	4.7	378	3	9267	435	2	10219	482
						1958	3	7193	4.8	341	3	9037	451	3	8945	454
283808	12	30	7796	4.9	386	1953	4	7508	5.1	364	3	7630	353	3	8160	383
						1954	9	7413	4.8	354	8	8066	383	7	8308	401
						1955	5	7888	5.2	413	4	7768	385	4	7979	390
						1956	4	8178	5.2	424	3	7877	393	2	7598	379
						1957	3	7680	4.9	376	3	7983	392	3	8164	402
						1958	3	6560	4.9	320	3	7270	361	3	8273	404
						1959	1	11090	4.8	528	1	7800	387	1	8088	387
						1960	1	9580	5.0	475	1	8570	416	1	8589	420
285113	18	39	6648	4.6	303	1947	3	6997	4.5	319						
						1948	5	5708	4.5	258						
						1949	6	6703	4.6	303						
						1950	8	7259	4.5	318	1	6440	398			
						1951	4	6420	4.5	290	4	7178	335			
						1952	5	7280	4.6	334	3	8096	392			
						1953	4	8150	4.5	370	4	7290	354	4	7516	361
						1954	2	7495	4.7	345	2	6975	330	1	7325	344
						1955	1	6840	4.6	317						
						1956	1	7350	4.3	313	1	6580	295			
285666	10	22	6651	4.7	313	1951	3	7373	5.0	370	1	6420	310			
						1952	5	7042	4.8	337	3	6593	367			
						1953	7	6123	4.8	291	6	8110	352	5	7454	338
						1954	4	5950	4.9	289	3	7230	324	3	7521	337
						1955	2	7575	4.7	358	1	9580	424	1	8153	377
						1956	1	9520	5.0	476						
285839	12	27	6490	5.0	319	1951	1	4920	5.1	252	1	6300	297			
						1952	4	5243	5.0	258	4	6615	307			
						1953	7	7027	5.0	348	6	8333	385	3	8091	370
						1954	8	7205	4.9	352	8	8493	390	7	8026	373
						1955	5	6604	4.9	317	5	7782	361	5	7981	377
						1956	1	7350	4.8	352	1	8470	362			
						1957	1	6920	4.7	322	1	11830	568			
285845	16	37	7275	4.7	343	1947	1	8530	4.9	418						
						1948	1	7090	4.6	323						
						1949	8	7630	4.7	357	2	9645	453			
						1950	8	7103	4.8	339	4	8378	374			
						1951	5	7102	4.8	349	3	8053	346			
						1952	3	6297	4.8	302	2	6640	304			
						1953	3	7833	4.6	362	2	7070	324	1	12273	372
						1954	3	8723	4.6	406	2	9885	410	2	10072	447
						1955	1	9220	4.6	427	1	8130	404	1	9014	451
						1956	2	10275	4.6	474	1	10450	484			
						1957	1	10640	4.5	474	1	8910	407			
						1958	1	11540	4.2	481	1	10320	456			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
GUERNSEY																
286184	2	2	6400	5.0	314	1947	2	6400	5.0	314						
287057	7	21	7184	4.8	341	1947	8	7015	4.8	335	2	7950	408			
						1948	1	7270	4.1	297						
						1949	5	7344	4.8	355	1	6820	297			
						1950	2	7840	4.5	348	1	7130	314			
						1952	1	6770	4.4	301	1	6490	296			
						1953	1	6620	4.9	322	1	5240	266	1	5821	264
						1954	1	6770	4.2	284	1	5120	223			
						1955	1	7590	4.2	321	1	5790	274	1	6278	279
1956	1	6110	4.2	257	1	6290	306									
289083	29	69	7015	4.9	340	1951	4	7966	4.6	367	3	8083	394			
						1952	12	6756	5.0	356	11	7418	348			
						1953	23	7101	4.9	344	23	7255	338	21	7697	356
						1954	16	7774	4.9	378	16	7607	359	16	8215	384
						1955	10	7808	4.9	383	10	6970	331	10	7889	376
						1956	1	6620	5.2	310	1	6870	306	1	7674	360
						1957	1	5790	4.3	249	1	7620	366	1	8894	452
						1958	2	8886	5.0	440	2	8090	385	2	8077	379
289285	20	49	7231	4.8	345	1947	2	7816	4.7	362	1	7780	360			
						1948	4	6490	4.7	299						
						1949	6	7157	4.7	335	1	7260	315			
						1950	5	6863	4.6	334	2	8355	417			
						1951	11	7722	5.0	384	5	7684	356			
						1952	6	6550	4.8	311	4	7518	342			
						1953	6	7993	4.6	368	5	7466	345	3	6762	309
						1954	6	7565	4.5	336	5	7340	342	5	7510	353
1955	2	6765	5.0	330	1	7590	352	1	7336	354						
1956	1	6640	5.3	352												
289537	3	7	6863	5.0	341	1950	1	8600	4.9	425						
						1951	2	7340	5.2	380						
						1952	3	6770	5.0	340	1	7820	378			
						1953	1	5700	4.5	256	1	7420	350	1	6540	319
290518	12	38	7847	4.6	361	1950	5	7142	4.2	385	1	7780	343			
						1951	4	7068	4.6	319	1	7780	399			
						1952	7	8623	4.8	414	6	9535	422			
						1953	7	7919	4.8	386	7	8933	395	4	8927	416
						1954	6	7500	5.0	378	6	8073	382	5	8980	422
						1955	5	8568	4.8	409	5	8456	375	5	9361	458
						1956	1	9260	5.4	504	1	10170	472	1	9352	452
						1957	1	7350	5.1	377						
1958	1	8150	4.6	371	1	6720	328	1	7652	363						
1959	1	7660	4.9	372	1	7560	364	1	8035	377						
290578	3	5	6830	5.7	384	1949	2	6950	5.8	396						
						1950	1	6020	6.2	372						
						1951	1	7120	6.0	427						
						1952	1	6450	5.4	347	1	6970	356			
290779	68	190	6882	5.0	344	1949	4	7303	5.0	362	3	7203	336			
						1950	14	6701	5.1	340	8	8408	367			
						1951	39	6812	5.0	339	29	7952	365			
						1952	38	6632	4.9	329	35	7548	344			
						1953	32	7336	5.0	364	31	7821	359	24	7940	363
						1954	28	7424	5.1	382	27	8101	365	27	7947	362
						1955	16	7337	5.1	371	16	8450	370	15	8203	374
						1956	5	7424	4.7	353	5	8834	408	3	9185	432
1957	7	8111	4.9	400	6	8800	411	6	8751	407						
1958	4	8475	5.1	433	4	8755	447	4	8813	451						
1959	3	8397	4.9	414	3	7807	392	3	9236	477						
291450	20	56	7196	4.9	353	1950	1	8470	4.7	396	1	9070	348			
						1951	7	7377	5.1	379	6	7270	323			
						1952	7	6853	5.0	343	7	7319	322			
						1953	7	6697	4.9	330	7	7211	335	6	7338	340
						1954	11	6399	5.0	323	11	7565	346	9	7324	336
						1955	7	6096	5.0	303	6	7812	367	7	7142	357
						1956	3	7960	4.7	377	3	7673	366	1	8077	404
						1957	5	8922	5.0	444	4	9200	438	2	8600	407
1958	5	9234	4.9	445	5	9124	416	4	8927	426						
1959	3	8813	5.2	442	3	8410	393	3	9341	444						
291832	12	23	7571	5.0	376	1951	4	7720	5.1	369	2	9580	482			
						1952	8	7198	5.0	358	5	8622	397			
						1953	4	7950	5.2	415	4	8990	417	3	9080	424
						1954	3	7723	5.2	399	3	6657	322	3	9091	410
						1955	2	7920	5.2	408	1	7930	395	1	7685	391
						1959	1	5860	4.7	274	1	9840	366	1	9505	402
1960	1	7070	4.6	328	1	10600	419	1	9450	408						
292015	4	13	8547	4.5	374	1947	4	8938	4.5	393						
						1948	2	9120	4.9	451						
						1949	2	10070	4.3	423						
						1950	2	9070	4.1	356						
						1951	2	8960	4.1	356						
1952	1	8010	4.5	362												
292507	1	1	9010	5.3	476	1950	1	9010	5.3	476						
293474	4	13	8121	5.3	423	1947	6	7445	5.3	394						
						1948	5	8930	5.2	463						
						1949	1	10730	5.0	534						
						1950	2	8830	5.3	464						



TABLE 15.—DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY ORLED,  
BY YEAR OF FRESHENING—RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HEMO MILK LB.	AVERAGE FAT LB.					
						1951	1	7290	5.2	381											
294995	6	17	6427	5.3	337	1950	1	7170	5.3	378											
						1951	6	6880	5.4	369	2	6120	308								
						1952	2	5660	5.1	265	2	6140	265								
						1953	3	5947	5.0	294	3	7580	333	2	6764	312					
						1954	3	5700	5.0	288	2	7760	335	3	7350	331					
						1955	1	6190	5.1	316	1	6810	333	1	7074	335					
						1956	1	5350	5.2	280	1	8520	392								
295840	1	1	8430	4.4	373	1953	1	8430	4.4	373	1	6750	333	1	6224	303					
295895	11	23	8666	4.4	378	1947	4	8775	4.4	378											
						1948	5	8562	4.5	383	1	8640	437								
						1949	2	8215	4.3	354											
						1950	3	8673	4.7	412	2	8170	401								
						1951	3	7537	4.4	323	3	7730	364								
						1952	3	9437	4.2	396	2	8565	389								
						1953	3	6067	4.4	268	3	7590	339	2	7548	352					
296007	1	1	6840	4.4	303	1959	1	6840	4.4	303	1	7510	341	1	8513	403					
296283	1	4	7245	5.3	383	1952	1	8360	5.2	438	1	7030	352								
						1953	1	7360	5.3	403	1	7170	404	1	7630	397					
						1954	1	6610	5.2	343	1	7080	377	1	7597	410					
						1955	1	6650	5.2	347	1	8860	429	1	7445	403					
296354	1	1	9920	4.1	411	1952	1	9920	4.1	411	1	8240	420								
297851	19	53	7288	4.7	342	1949	2	6575	5.0	318											
						1950	5	6442	4.9	321	3	7517	368								
						1951	5	8026	4.9	391	5	7350	355								
						1952	3	7167	4.5	311	3	6917	323								
						1953	6	8655	4.7	402	6	7945	372	6	7943	381					
						1954	12	7367	4.7	345	12	8447	402	12	7832	372					
						1955	8	7314	4.6	336	8	8235	391	8	7832	376					
						1956	6	7688	4.5	345	5	8650	392								
						1957	1	9820	4.2	417	1	8320	401	1	8644	399					
						1958	3	7700	4.6	352	3	8440	419	3	8251	386					
						1959	2	8350	4.1	341	2	7945	375	2	9140	428					
						297876	30	76	7511	5.1	379	1950	4	7788	5.2	407	3	9923	475		
												1951	16	7989	5.1	408	13	8805	445		
												1952	18	7923	5.2	409	17	8496	408		
1953	14	7531	5.1	384	13							8326	408	9	8541	426					
1954	9	7316	5.0	367	9							7959	398	8	8221	420					
1955	6	7732	4.9	321	6							8530	411	3	8727	429					
1956	2	9940	5.3	515	2							10135	460	2	9407	453					
1957	2	6760	5.0	335	2							7505	379	2	7276	355					
1958	4	10010	4.9	492	4							8783	414	4	8693	413					
1959	1	8110	4.6	371	1							7800	366	1	7804	371					
299618	7	20	7489	4.8	357							1947	5	7700	4.8	365	2	9690	445		
												1948	7	7573	4.7	357	2	8540	396		
												1949	2	7830	4.9	380	2	8325	414		
												1950	1	6900	4.4	304					
						1951	2	8675	4.9	428	2	7905	380								
						1952	2	8420	4.1	320	2	8425	387								
						1953	1	7150	3.8	268	1	8010	369	1	7706	371					
						299796	4	8	8278	4.5	372	1947	4	7970	4.5	358					
												1951	1	7580	4.9	369	1	7860	399		
1953	1	7990	4.9	394	1							9020	447								
1954	1	9230	4.8	443	1							7840	379	1	7913	318					
1955	1	10000	4.9	491	1							8060	421	1	8175	405					
300560	3	4	6257	5.0	312							1950	3	6690	4.9	330					
						1951	1	5080	5.4	276											
301072	1	3	6960	5.3	368	1949	1	6600	5.2	344											
						1950	1	6300	5.5	345											
						1951	1	7980	5.2	416											
301080	30	67	7353	4.8	346	1951	5	7134	4.6	329	3	9183	433								
						1952	16	7757	4.8	370	15	8141	375								
						1953	17	7305	4.8	350	15	7710	357	13	8342	379					
						1954	9	7811	4.6	357	9	8749	396	5	8620	411					
						1955	5	7108	4.9	343	5	7778	340	4	8096	379					
						1956	7	8277	4.4	359	7	8287	379	1	8840	417					
						1957	3	8343	4.6	373	3	9093	431	2	9930	459					
						1958	5	8966	4.5	402	5	9668	461	5	9344	449					
						302187	2	4	4917	4.9	240	1950	1	5580	4.7	261	1	8540	418		
1951	1	5220	4.4	231	1							7160	357								
1952	2	4780	4.9	234	2							6880	329								
303093	24	87	7258	4.7	341	1948	6	8565	4.8	414	2	11645	452								
						1949	15	7987	4.6	383	5	9850	433								
						1950	20	7489	4.7	348	7	8926	396								
						1951	18	6784	4.5	307	9	9044	396								
						1952	11	6963	4.9	344	8	8866	378								
						1953	7	7564	5.1	386	7	9584	409								
						1954	6	8248	4.7	388	6	9640	411	3	8989	337					
						1955	2	8540	4.8	410	2	8240	378	3	8924	380					
						1956	1	10240	4.5	460	1	7530	343	1	7586	358					

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
GULKNSEY																
303094	18	36	7734	4.7	358	1957	1	8910	4.6	407	1	10640	474			
						1947	7	7270	4.5	350						
						1948	8	7846	4.6	359	1	10310	479			
						1949	8	8345	4.7	391	1	8650	380			
						1950	5	8134	4.9	391	1	9560	442			
						1951	3	8160	4.7	383	1	8700	406			
						1952	2	5165	5.1	274	1	8670	416			
						1953	1	8030	5.3	422	1	8090	405			
						1954	1	8480	5.1	432	1	8360	404	1	8208	407
1956	1	9610	4.9	473	1	8680	401	1	7837	378						
303096	1	7	8470	4.6	392	1949	1	8220	4.5	368	1	7600	360			
						1950	1	9010	4.5	406	1	7790	351			
						1951	1	9120	4.5	408	1	6930	306			
						1952	1	8740	4.8	422	1	7080	315			
						1953	1	8470	4.7	395	1	6610	300	1	7347	319
						1954	1	7660	4.9	375	1	7320	342	1	7761	351
						1955	1	8070	4.6	368	1	7310	345	1	7586	358
303522	26	47	7770	4.9	378	1954	7	7626	5.0	379	5	7774	377	5	8751	422
						1955	14	8403	4.9	406	12	9066	434	13	8982	432
						1956	12	7543	4.8	362	9	10063	469	3	7946	377
						1957	5	7310	5.0	365	1	8340	396	1	9439	471
						1958	6	9117	4.7	435	6	9738	475	5	9625	469
						1959	2	9855	4.8	471	2	9805	496	2	10529	533
						1960	1	12740	4.7	594	1	11850	564	1	12273	562
303546	3	8	6527	5.1	337	1952	2	7040	4.9	347						
						1953	2	7500	5.3	402	1	8520	402	1	9003	421
						1954	1	8770	5.5	479						
						1955	1	9520	5.6	534						
						1956	1	9640	5.5	529						
						1957	1	10920	5.4	587						
304086	15	26	8050	4.6	365	1949	2	7710	4.6	338						
						1950	1	6680	4.9	326						
						1951	2	6350	5.6	342	1	9700	424			
						1952	6	6938	4.7	319	6	9353	367			
						1953	3	7693	4.9	373	5	7847	342	3	6300	289
						1954	7	8166	4.4	361	7	7681	303	7	8633	358
						1955	2	8645	4.2	372	1	9890	388	1	10268	385
						1957	1	8430	3.8	317	1	12410	487	1	11292	438
						1958	1	11520	4.8	552	1	8440	410	1	7826	374
						1959	1	12430	4.5	536	1	7260	378			
305336	8	20	7560	5.0	374	1947	1	5320	5.8	307						
						1948	1	6980	4.9	341						
						1949	4	8075	4.8	386	1	8520	499			
						1950	4	8540	5.0	419	2	9300	427			
						1951	3	7710	5.2	401	2	10435	496			
						1952	3	7933	5.0	397	5	7220	364			
						1953	1	7940	4.7	373	1	8440	463	1	9102	486
						1954	1	9060	3.6	329	1	8220	424	1	7652	404
						1955	2	8505	5.3	447	2	8625	437	1	7979	432
305687	14	37	7044	4.6	324	1948	4	7120	4.4	315						
						1949	7	6881	4.9	342	4	8220	393			
						1950	6	6742	4.7	318	3	7797	376			
						1951	4	6578	4.4	287	4	7140	346			
						1952	7	6531	4.6	301	6	7140	338			
						1953	3	5303	4.3	227	2	6140	310	2	5821	264
						1954	2	5895	4.2	248	1	7120	298			
						1955	2	6440	4.1	261	1	7030	323	1	6278	279
						1956	1	7760	4.2	322						
						1957	1	7180	4.2	302						
306982	13	33	7493	4.8	360	1951	3	9133	4.9	448	3	8337	409			
						1952	9	6933	4.8	332	8	7360	357			
						1953	7	7851	4.8	378	7	7881	396	7	8212	395
						1954	7	7704	4.8	371	6	7500	383	6	8015	411
						1955	3	7847	4.7	376	5	8397	389	3	8299	411
						1956	1	6440	5.1	328	1	11000	472			
						1957	1	9290	4.6	431	1	7780	345	1	7685	419
						1958	1	6790	6.1	415	1	8130	421	1	7935	424
						1959	1	7270	4.7	341	1	7500	389	1	8208	448
307042	23	72	8858	4.7	411	1947	1	5680	5.2	296						
						1948	2	10610	4.6	479	1	11910	447			
						1949	5	9072	4.7	426	2	10225	443			
						1950	8	8334	4.8	402	3	8643	432			
						1951	0	8885	4.6	408	8	7731	360			
						1952	8	8751	4.7	408	8	7658	360			
						1953	10	8723	4.8	418	10	8412	383	5	9221	409
						1954	9	8601	4.8	416	9	9357	409	4	8023	402
						1955	0	8988	4.7	423	8	10488	427	2	8497	442
						1956	4	10653	4.6	487	3	9517	437			
						1957	5	10460	4.4	465	3	10937	455	1	10475	502
						1958	3	9970	4.1	409	2	10965	447	1	9559	401
						1959	1	8790	3.9	344	1	8040	359			
308216	35	90	6569	4.7	308	1948	1	6220	5.1	315						
						1949	5	6136	5.1	307	1	9200	414			
						1950	16	6868	4.6	312	6	6897	319			
						1951	18	7318	4.5	329	11	7981	374			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.						
GUERNSEY																						
308620	3	3	9297	5.0	465	1952	15	6764	5.0	337	13	7596	355									
						1953	14	6786	4.5	309	13	7365	341	13	7660	352						
						1954	8	6874	4.5	316	7	7154	325	7	7521	343						
						1955	8	7303	4.7	342	7	7686	358	7	7657	362						
						1956	5	6596	4.8	318	4	8898	429	3	7961	369						
	1953	1	9980	5.1	506	1	9780	465	1	8393	407											
	1954	1	9240	4.6	445	1	10000	461	1	8360	407											
	1958	1	8670	5.1	444	1	9050	469	1	8589	446											
	310137	1	1	7120	3.5	247	1956	1	7120	3.5	247	1	7810	381		1	8458	407				
	311574	47	106	7785	4.5	352	1951	1	7120	4.4	316	1	8490	416								
1952							9	8250	4.7	388	9	8711	437									
1953							32	8007	4.5	364	30	8803	404	20	8813	404						
1954							28	7283	4.5	330	25	8329	394	21	8894	419						
1955							16	8168	4.6	372	15	8561	387	15	8578	388						
1956							10	8548	4.7	403	9	8090	363	4	8900	424						
1957							5	8334	4.8	399	5	8430	393	5	9019	431						
1958							3	9590	4.9	473	3	9510	458	3	8934	442						
1959							2	7285	4.5	325	2	8830	410	2	9407	446						
311775							58	172	8061	5.1	412	1950	6	8322	5.4	451	5	8242	420			
1951							20	8324	5.2	425	16	8648	404									
1952	30	8276	5.1	417	28	8331	385															
1953	34	8014	5.2	417	33	8129	384	20	8509	409												
1954	28	7960	5.2	410	27	8269	387	20	8765	423												
1955	19	8465	5.0	427	16	8590	406	17	8862	426												
1956	13	8755	5.0	439	11	9232	431	7	8315	424												
1957	9	8000	4.9	388	8	8976	413	5	8371	421												
1958	7	9750	5.0	480	6	8822	436	5	9128	460												
1959	4	8428	4.9	411	4	7708	370	3	8829	425												
1960	2	9435	5.2	483	2	8265	402	2	8502	419												
312401	25	41	6966	5.0	347	1954	12	6384	4.9	315	11	8354	388	11	8359	393						
						1955	13	7452	4.6	359	12	8104	390	12	8186	399						
						1956	7	6997	5.0	353	6	8165	396	5	8149	384						
						1957	3	9560	5.4	519	3	9393	466	2	8922	465						
						1958	2	9165	5.6	515	2	9440	474	2	9516	472						
						1959	3	9030	5.5	498	3	10117	499	1	9494	477						
						1960	1	9170	6.1	561	1	10580	531	1	10050	525						
						314163	26	67	7688	4.8	366	1951	10	8289	4.7	392	7	8086	388			
1952	15	7669	4.8	373	12	7762	361															
1953	16	7801	4.7	363	16	7546	358	11	7839	372												
1954	11	7820	4.7	364	11	8244	382	8	8542	377												
1955	7	8171	4.8	391	7	7600	369	6	8053	379												
1956	2	8395	4.5	383	2	6745	306															
1957	3	7640	4.8	364	3	8050	387	1	7521	372												
1958	2	8865	4.3	379	2	7710	357	1	8415	416												
1959	1	9740	3.9	382	1	7720	352	1	7150	328												
317294	15	26	5701	4.9	282	1947	2	4505	4.7	212												
						1948	8	5833	4.8	277												
						1949	6	6678	5.2	346												
						1950	7	6019	5.1	309												
						1951	2	5820	4.7	277												
						1952	1	6640	4.0	267												
						318308	7	21	7108	4.9	343	1949	1	6060	4.9	294						
1950	4	8343	4.8	401	3	9167	392															
1951	5	7384	5.1	374	5	8024	362															
1952	3	7297	4.9	356	3	8667	407															
1953	4	5548	5.2	285	4	7815	381	2	6181	292												
1954	3	6043	4.5	268	3	6803	329	1	7543	378												
1955	1	7580	4.9	372	1	5790	264	1	6278	279												
319210	19	41	8006	4.7	376	1953	2	8060	4.6	375	2	8015	387	1	7390	350						
						1954	8	8406	4.8	402	6	7665	368	6	8942	423						
						1955	8	8044	4.8	383	7	8869	384	5	8868	411						
						1956	8	7808	4.6	361	7	9099	407	6	8900	422						
						1957	6	8407	4.8	404	5	8762	402	4	8717	428						
						1958	5	7392	4.8	352	5	8200	381	4	8619	417						
						1959	3	7930	5.4	433	3	8730	428	3	9360	451						
						1960	1	7030	5.0	353	1	7530	345	1	7565	355						
						319654	45	100	7962	4.7	368	1952	6	8635	4.8	414	6	8103	394			
1953	20	8129	4.5	366	19	7958	372	12	8019	368												
1954	22	7575	4.6	362	18	8322	370	15	8591	400												
1955	24	7559	4.7	353	21	8320	371	18	7768	368												
1956	5	8058	4.4	358	3	9073	429	3	8037	379												
1957	8	8454	4.4	365	6	8858	415	7	8030	381												
1958	9	9102	4.5	403	8	9283	421	6	10221	457												
1959	5	9438	4.6	424	4	9203	416	2	11799	451												
1960	1	10980	3.5	389	1	8270	399	1	7576	356												
319865	48	120	7310	4.9	359	1949	3	7483	5.0	383	1	10080	501									
						1950	19	8057	5.1	415	8	8640	425									
						1951	15	6960	5.1	353	12	7869	380									
						1952	20	7533	5.1	380	17	7523	362									
						1953	20	7031	5.0	345	20	7920	366	11	7351	343						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1954	16	7428	4.9	362	16	7620	356	11	8369	395
						1955	13	7162	4.9	346	12	7733	373	11	7623	362
						1956	7	7021	5.3	367	6	7025	321	1	6758	318
						1957	3	5447	4.5	242	3	7563	328	3	7565	323
						1958	4	8975	4.7	429	4	8063	375	4	8671	390
321378	67	140	7497	4.9	363	1950	1	7530	4.9	369	1	8200	387			
						1951	12	7153	5.0	358	8	7710	353			
						1952	15	7287	4.9	360	13	7748	352			
						1953	29	7039	4.8	335	26	7563	347	20	7742	349
						1954	23	7593	4.9	368	21	7968	363	16	8129	376
						1955	18	7766	5.0	386	16	7874	355	16	7714	359
						1956	18	7736	5.0	384	15	8924	412	6	8326	377
						1957	7	9426	5.0	469	4	8958	445	4	8786	442
						1958	9	8319	5.0	417	8	8520	395	8	8798	418
						1959	8	8770	4.9	426	8	9418	447	7	9636	447
321462	43	98	7585	5.1	387	1950	3	8270	4.9	414	3	8603	413			
						1951	12	7155	5.4	379	8	8301	385			
						1952	17	7384	5.3	392	14	8554	406			
						1953	21	7730	5.2	406	21	8125	386	13	8632	416
						1954	14	7533	5.3	394	14	8421	404	11	9137	449
						1955	11	7420	5.3	391	10	8887	419	9	9029	433
						1956	9	7990	5.1	403	8	8368	414	4	8865	431
						1957	3	9257	5.1	471	2	9130	440	3	8516	427
						1958	4	7860	5.3	405	4	9425	439	4	9197	450
						1959	4	8065	5.4	429	4	9253	433	4	9649	459
321638	10	31	7348	4.6	338	1947	7	7173	4.6	330	1	7680	373			
						1948	7	6889	4.6	315	2	7550	363			
						1949	8	7249	4.7	339	3	7317	359			
						1950	4	8160	4.8	387	3	6943	318			
						1951	2	8585	4.4	372	1	6600	330			
						1952	2	7140	4.5	323	2	8615	320			
						1953	1	8470	4.4	371	1	6880	330	1	6660	327
321668	14	21	7638	5.0	378	1953	1	9990	5.3	531	1	8070	365	1	8371	398
						1954	5	7366	5.0	363	5	7834	379	4	9153	453
						1955	7	8066	4.7	381	7	8829	408	6	8833	392
						1956	3	7753	5.5	421	2	8695	409	2	9096	432
						1958	4	7565	4.7	357	4	8470	401	2	9096	432
						1959	1	9180	5.1	466	1	10160	478			
321825	2	6	7915	5.0	392	1950	1	8000	5.3	424						
						1951	1	8170	4.4	359						
						1952	2	8165	5.1	413						
						1953	2	7495	5.0	372						
323083	1	1	9460	4.5	421	1953	1	9460	4.5	421	1	9060	445	1	9647	464
323252	6	24	6398	4.7	304	1948	1	6160	4.7	289	1	8610	418			
						1949	3	7017	4.6	340	1	6450	324			
						1950	5	6166	4.7	291	4	6723	335			
						1951	4	6170	4.9	306	3	7283	332			
						1952	5	7660	4.8	366	5	7362	336			
						1953	2	6525	4.6	300	2	7895	365	1	7063	306
						1954	3	7770	4.6	375	3	6717	317	3	7721	359
						1955	1	4440	4.2	185	1	8840	405	1	8001	367
323976	10	35	7071	5.0	353	1949	1	8970	4.8	429						
						1950	10	7756	5.1	394	6	8278	386			
						1951	8	7446	5.1	375	6	7460	346			
						1952	7	6471	5.0	317	6	6973	315			
						1953	3	7427	4.8	354	3	6690	296	3	7303	341
						1954	5	5416	4.9	262	5	6268	288	5	6823	307
						1955	1	7730	5.1	397	1	6280	306	1	6562	307
324066	21	59	7246	5.1	364	1948	1	10650	4.9	518						
						1949	9	7280	5.0	359	4	9340	412			
						1950	7	7213	5.0	355	4	8658	375			
						1951	9	7417	5.3	387	5	7008	396			
						1952	11	7206	5.1	362	10	8767	382			
						1953	9	7360	4.8	350	9	8253	372	5	7656	347
						1954	6	7543	4.7	352	6	7705	346	4	8158	392
						1955	4	7368	5.2	382	4	8988	390	4	7758	371
						1956	2	8595	5.1	418	2	7850	391			
						1957	1	5940	5.6	332	1	8710	447	1	8894	462
324380	28	43	8275	4.9	403	1954	7	7893	4.9	390	7	7811	375	6	7665	363
						1955	12	7084	4.7	335	12	7733	362	11	7596	354
						1956	8	8741	5.1	446	6	8157	374	2	8655	405
						1957	5	7832	5.0	390	2	7280	343	1	7728	373
						1958	6	8930	4.8	428	6	9405	419	3	9512	426
						1959	5	9910	4.7	464	5	9246	435	5	9551	444
325370	1	1	7000	4.1	285	1947	1	7000	4.1	285						
326202	9	18	7835	4.7	364	1953	5	7242	4.8	330	5	7568	367	5	7800	367
						1954	5	7650	4.6	344	5	6940	334	5	7366	351
						1955	4	7925	4.7	367	4	7788	377	4	7897	384
						1956	2	9205	4.3	397	2	6945	375	1	9439	447
						1957	2	7875	4.9	386	2	8370	377	1	8099	405

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	MILK LB.	TEST PCT.	AV. YEARLY RECORDS NO.	MILK LB.	FAT LB.
GULFNESEY																
327931	7	23	8884	4.8	424	1952	2	9200	5.1	471	2	7915	390			
						1953	4	8660	4.9	426	3	7697	369	2	8121	349
						1954	3	8350	5.1	425	3	9107	414	2	9080	397
						1955	5	9106	5.0	449	4	9358	413	4	8823	405
						1956	3	8980	4.7	420	2	7000	319			
						1957	2	10270	4.3	444	2	9705	483	2	10094	473
						1958	4	7485	4.8	353	4	11533	493	2	10595	505
330198	1	1	6280	4.7	293	1949	1	6280	4.7	293						
331096	5	7	6829	4.5	310	1953	4	6128	4.4	271	3	8750	395	3	8081	374
						1954	1	8070	4.8	386	1	9560	595	1	8676	403
						1958	1	9350	5.0	468	1	9270	409	1	8993	409
						1960	1	10020	4.7	474	1	10040	471	1	9527	457
331984	16	36	7606	4.7	355	1947	1	8620	4.4	379						
						1948	3	8063	4.3	344						
						1949	13	7781	4.7	363						
						1950	10	7381	4.8	354	1	7360	309			
						1951	3	7313	5.0	361						
						1952	1	8370	4.9	406	1	7260	339			
						1953	1	7580	4.4	367	1	5910	277	1	6769	322
						1954	1	7250	4.8	351	1	5390	253	1	5897	282
						1955	1	6720	4.7	317	1	5600	294	1	6867	330
						1958	1	8070	4.5	363	1	6300	302			
						1959	1	6660	4.7	314	1	5880	278			
332065	1	1	6530	4.4	285	1951	1	6530	4.4	285						
332309	6	14	5517	4.9	268	1951	3	5883	4.9	292	2	9990	394			
						1952	4	6073	4.8	285	3	8837	387			
						1953	5	5180	5.0	259	4	9158	388	4	7996	344
						1954	1	7680	4.6	353	1	7940	342	1	7041	342
						1955	1	7590	4.6	351	1	10890	599	1	10050	397
332856	49	110	7391	4.7	343	1948	1	12030	3.6	432	1	6370	450			
						1949	7	8594	4.8	407	1	5770	274			
						1950	5	7100	4.9	348	2	7550	340			
						1951	14	7597	4.5	343	10	7670	353			
						1952	25	6984	4.6	320	22	7467	357			
						1953	24	7155	4.7	333	24	7298	333	17	7689	344
						1954	14	7350	4.6	339	14	7516	353	12	7445	353
						1955	7	7740	4.4	335	7	8619	382	6	8687	381
						1956	4	9155	4.6	422	4	9895	443	1	9036	440
						1957	5	8890	4.5	407	4	10655	471	4	10219	470
						1958	1	9000	4.7	419	1	11640	489			
						1959	2	10345	4.8	486	1	10430	478	1	10715	498
						1960	1	10040	4.4	442	1	6670	334	1	10355	506
333200	18	32	7602	5.2	395	1954	6	7193	5.3	382	5	8052	374	5	8657	406
						1955	8	6780	5.3	360	8	7706	362	8	7783	365
						1956	5	8422	5.2	439	3	8450	367			
						1957	2	8515	5.3	450	2	8580	412	2	8633	402
						1958	4	8108	5.4	439	4	8913	420	4	8197	387
						1959	6	8275	5.1	420	6	8987	421	5	9520	452
						1960	1	9500	4.9	470	1	8950	425	1	8982	417
334545	49	149	8109	5.0	405	1951	2	9365	5.3	493	2	8920	417			
						1952	15	7966	5.0	397	15	7937	385			
						1953	28	8427	5.2	436	27	8236	397	17	8247	392
						1954	27	8160	5.1	413	24	7831	378	24	8430	405
						1955	22	7792	5.0	389	20	8077	377	19	7872	377
						1956	13	7568	5.0	376	9	8111	393	5	8493	409
						1957	12	7373	4.9	460	9	8921	426	9	8605	421
						1958	12	8863	5.1	450	12	8896	420	8	9320	445
						1959	13	9011	5.1	460	12	8678	413	9	9643	464
						1960	5	10366	4.9	504	5	8948	421	5	9629	464
334587	13	23	7546	4.9	362	1952	4	8585	4.9	419	4	8100	373			
						1953	8	8530	4.7	393	8	7175	343	7	7515	352
						1954	5	6810	5.1	351	5	7306	369	2	8568	400
						1955	3	7520	4.9	370	3	7457	363	3	7834	372
						1956	2	6725	4.7	318	1	5390	289	1	6758	318
						1959	1	6650	5.4	362	1	3500	425	1	9080	437
334926	19	37	7005	4.8	333	1953	3	6953	4.8	333	3	7790	360	3	6951	319
						1954	11	6651	4.8	320	11	7536	358	11	7791	370
						1955	7	7031	4.8	336	7	8189	389	7	8046	385
						1956	2	7670	4.9	369	1	8330	402	2	7696	365
						1957	7	7489	4.8	356	6	8915	420	4	8372	392
						1958	3	9893	4.8	471	3	10573	506	1	10355	440
						1959	4	8750	5.0	433	4	8393	414	3	9033	445
335156	11	22	7480	4.9	370	1951	1	10210	4.7	476	1	9650	421			
						1952	2	7485	4.5	329	1	8290	415			
						1953	4	9478	4.8	453	4	8395	404	4	9080	419
						1954	2	8215	4.9	398	2	6715	338	2	9118	439
						1955	4	7830	4.9	387	4	8020	416	1	8687	445
						1956	2	5640	4.9	281	2	8105	423	1	9592	504
						1957	3	6933	5.4	374	2	8405	430	2	8791	469
						1958	2	7790	5.5	425	1	8520	454	1	7935	424
						1959	2	7580	5.5	416	2	7530	389	2	8208	448
337155	1	4	7375	4.2	306	1950	1	7520	4.3	324	1	7200	347			
						1951	1	6080	4.1	247	1	7840	350			
						1952	1	8160	4.1	331	1	8660	384			
						1953	1	7740	4.1	320	1	7950	369	1	8371	372



TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	AVERAGE FAT LB.					
GUERNSEY																					
337861	7	13	8263	5.4	444	1952	1	12010	5.5	657											
						1953	2	9310	5.4	428		1	9040	457		1	9058	468			
						1954	3	9563	5.3	506		1	5750	288							
						1956	4	7710	5.3	401		1	5950	234							
						1957	2	6260	5.5	343						1	8666	409			
						1959	1	6170	6.4	396		1	7690	391		1	8208	448			
338402	9	19	7494	4.6	339	1948	1	8410	4.7	392											
						1949	3	7303	4.7	340		1	10410	369							
						1950	3	8053	4.5	364		1	11490	402							
						1951	5	7030	4.5	312		2	9075	356							
						1952	3	7697	4.6	351		2	8900	355							
						1953	1	8910	3.7	331		1	7780	339		1	6300	289			
						1954	1	8860	3.9	343		1	7780	339		1	7477	328			
						1955	1	8080	4.2	336		1	6320	285		1	7434	318			
						1956	1	6480	5.6	363		1	8160	368		1	7336	330			
338467	43	88	8559	4.8	410	1952	6	6738	4.6	321		6	6848	339							
						1953	22	8050	4.9	392		22	7905	367		14	8546	389			
						1954	20	8443	4.8	406		18	7773	375		15	8241	402			
						1955	11	8034	4.9	392		10	7734	367		10	7995	382			
						1956	10	7287	4.7	341		8	8964	397		2	6884	338			
						1957	5	9166	5.0	457		4	9993	474		3	8807	425			
						1958	4	10380	4.9	427		4	8785	437		4	9175	455			
						1959	7	8119	4.7	374		7	8710	417		5	9588	461			
						1960	3	12970	5.0	652		3	10543	523		2	11260	533			
338835	1	3	7460	5.4	397	1952	1	9160	4.9	449		1	8360	415							
						1953	1	6010	5.7	344		1	7580	408		1	9080	460			
						1954	1	7210	5.5	399		1	7840	407		1	9145	468			
339322	5	9	6280	4.9	305	1952	3	6223	4.9	303		3	7000	330							
						1953	3	6450	4.7	306		3	6460	317		3	7045	339			
						1954	2	6630	4.6	304		2	6905	335		2	6824	333			
						1958	1	7290	4.8	350		1	8610	438		1	7036	461			
339378	5	6	7370	4.9	357	1955	2	6895	4.5	308		2	7480	321		2	7608	330			
						1956	3	7080	5.2	364		3	7303	331		2	8491	359			
						1959	1	10240	4.6	469		1	10030	513		1	10181	520			
340667	7	19	7590	4.7	357	1951	1	7580	3.9	296		1	6620	298							
						1952	5	6586	4.8	314		5	6962	339							
						1953	5	7690	4.9	371		5	7432	364		5	7028	338			
						1954	1	6360	5.5	352		1	7480	376		1	7619	365			
						1955	2	6485	4.9	316		2	7750	390		2	7848	390			
						1956	1	6990	4.9	344		1	7890	383		1	7815	382			
						1957	2	7635	5.0	379		2	8375	424		2	9004	451			
						1958	1	9190	5.3	489		1	8310	423		1	9036	461			
						1959	1	10550	5.1	537		1	9340	464		1	9167	473			
340794	19	44	8363	4.9	404	1950	5	7926	5.0	397		3	8403	376							
						1951	9	7967	4.9	390		6	9538	399							
						1952	9	8286	4.6	383		8	8480	372							
						1953	11	8268	4.9	404		10	8076	364		3	7699	357			
						1954	4	7965	5.2	414		3	7597	347		2	8497	412			
						1955	3	8360	4.7	395		3	8060	353		3	9091	407			
						1956	2	8175	4.6	371		2	9625	408		1	9036	440			
						1957	1	9870	5.3	525		1	9000	441		1	9125	446			
341233	15	39	6948	4.6	320	1952	2	6920	4.7	324		2	9105	408							
						1953	4	8008	4.6	365		4	7403	346		4	7835	360			
						1954	9	6546	4.5	297		9	7002	337		7	8099	379			
						1955	7	7901	4.5	358		7	7450	333		7	8033	370			
						1956	7	8269	4.6	380		7	8180	398		4	8197	386			
						1957	4	6655	4.4	294		2	7670	380		2	7456	362			
						1958	4	6910	4.4	315		3	8273	383		3	7844	368			
						1959	2	7410	4.8	351		2	9545	394		2	10208	410			
341503	36	74	7315	5.0	358	1951	2	6195	5.1	315											
						1952	11	8222	4.9	397		8	8883	390							
						1953	15	7789	4.6	370		14	7540	345		9	8250	373			
						1954	14	7264	4.9	358		13	7868	360		10	8121	370			
						1955	13	7022	4.9	338		12	7908	370		11	8032	372			
						1956	6	7500	5.0	369		6	9143	395		1	8382	384			
						1957	6	5916	5.2	290		4	9615	459		4	9350	443			
						1958	2	7935	4.2	337		2	8545	386		1	7059	374			
						1959	4	7630	4.6	365		4	8853	383		3	7681	371			
						1960	1	6430	5.1	329		1	10100	426		1	8491	393			
342716	8	29	8098	4.5	358	1950	2	6035	4.3	260		1	7350	310							
						1951	2	8875	4.4	387		2	6420	297							
						1952	6	9048	4.4	398		6	7223	337							
						1953	7	8790	4.5	390		7	8096	381		7	8348	394			
						1954	4	8920	4.6	399		4	8153	391		4	8110	334			
						1955	1	6310	4.6	288		1	8930	427		1	8044	385			
						1956	4	8213	4.3	350		4	8200	376							
						1957	3	8163	4.1	338		3	8843	415		3	8644	399			
343131	16	28	8175	4.9	403	1953	1	6490	4.1	269		1	7360	359		1	8251	405			
						1954	3	7057	5.0	352		3	8173	391		3	8517	410			
						1955	2	6495	5.5	356		2	8685	408		2	8361	405			

DAUGHTER AVERAGE BY SIRE

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
343148	19	53	7813	4.7	369	1956	4	7808	5.1	401	2	9535	450			
						1957	8	7989	5.0	399	2	9695	447	3	9523	412
						1958	5	9048	5.0	455	4	10385	456	4	9862	439
						1959	5	9066	4.7	434	4	10898	487	4	10622	449
						1949	2	7750	4.6	358	1	6690	296			
344209	2	6	6210	4.7	296	1950	13	7321	4.8	349	0	7830	364			
						1951	13	7925	4.8	381	9	8086	374			
						1952	11	7625	4.9	373	11	7923	364			
						1953	6	7132	5.0	354	6	7765	361	6	8073	376
						1954	3	7480	5.0	369	3	8757	413	3	7979	374
						1955	2	6255	5.2	325	2	9465	467	2	8459	412
						1956	3	10527	4.4	461	2	9140	448			
344748	1	1	7060	4.8	337	1948	1	6130	5.1	312	1	7790	386			
						1949	1	5460	4.5	247						
						1950	2	6585	4.8	318						
						1951	1	6830	4.8	327	1	7090	335			
						1952	1	7080	4.8	345	1	6820	328			
344748	1	1	7060	4.8	337	1955	1	7060	4.8	337	1	5710	270	1	5954	294
346065	35	71	7293	4.6	334	1953	10	7226	4.9	353	10	7625	365	8	8405	405
						1954	19	6901	4.5	313	18	7469	359	15	8068	393
						1955	18	7616	4.6	347	18	8598	404	18	8176	393
						1956	10	8025	4.5	359	8	8103	370	2	8382	401
						1957	7	7594	4.6	339	4	9218	431	4	8597	416
						1958	6	7928	4.2	327	5	9094	425	4	9014	431
						1959	1	9120	3.9	353	1	8770	426	1	10497	509
346295	39	69	7474	4.9	365	1954	11	7311	4.8	354	7	8614	412	4	8816	422
						1955	17	7891	5.0	389	8	8890	432	9	8036	391
						1956	17	7952	4.9	387	6	8782	395	4	8965	426
						1957	10	7715	4.9	376	5	9470	442	5	8967	426
						1958	8	7543	5.1	388	7	8836	429	7	8991	432
						1959	5	8962	5.1	459	4	9688	455	4	9472	447
						1960	1	8720	4.6	400	1	9100	372	1	9930	415
347781	3	11	5647	5.5	306	1952	2	6805	5.6	379	1	8010	386			
						1953	1	5310	5.9	311						
						1954	4	5870	5.2	304	3	8017	394	3	8270	404
						1955	2	6235	5.7	350	1	7460	352	1	7892	386
						1956	1	6260	4.8	303	1	8140	384	1	7837	373
						1957	1	4220	5.2	220	1	7540	360	1	7783	367
348371	19	46	6613	4.6	306	1947	15	6741	4.8	319						
						1948	11	6577	4.6	302						
						1949	7	6714	4.6	305	1	4090	210			
						1950	6	7063	4.9	344	1	4630	250			
						1951	4	6783	4.6	313	1	6800	325			
						1952	2	6310	4.0	253	1	7520	344			
						1953	1	5660	4.5	255	1	7710	376	1	8164	382
348518	9	16	8470	4.6	389	1948	1	12750	4.7	599						
						1950	1	11300	4.7	530						
						1951	1	8730	4.7	413						
						1952	1	9370	4.7	438						
						1953	1	8990	5.0	449						
						1954	3	8530	4.6	388	3	8620	406	2	8987	411
						1955	4	8988	4.7	425	4	7945	389	4	7881	379
						1956	1	8020	5.4	430	1	7980	368			
						1957	1	8710	5.1	448	1	8790	427	1	8328	403
1959	2	7215	4.2	302	1	8050	398	1	8666	422						
348783	45	77	7857	4.7	367	1952	8	8870	4.6	404	8	8520	389			
						1953	16	7336	4.9	357	16	8368	380	10	8713	392
						1954	8	6628	4.8	314	8	7668	357	7	7853	358
						1955	14	7582	4.6	353	14	7805	373	11	7796	377
						1956	7	9014	4.6	408	5	8632	396	3	8298	384
						1957	8	8234	4.8	392	6	8253	391	4	7854	375
						1958	8	8391	4.8	403	8	8934	425	7	8905	432
						1959	5	9124	4.5	409	5	8942	418	5	9961	470
						1960	3	7147	4.8	342	3	8357	374	2	9031	401
						349213	64	124	7065	4.9	345	1951	2	6660	5.2	345
1952	15	6921	4.8	331	14							8187	381			
1953	31	7005	5.0	353	30							7625	358	23	7971	378
1954	34	6709	5.0	334	34							7484	352	33	7825	367
1955	16	7303	5.0	366	16							7346	352	16	7643	364
1956	8	7895	4.7	368	5							7904	371	3	7699	364
1957	7	7219	4.9	357	6							7890	369	5	8138	388
1958	5	8216	4.7	386	5							8250	387	2	9625	458
1959	6	7592	4.0	347	6							7412	357	6	8381	399
349272	41	87	8148	4.8	388	1952	6	8217	4.8	393	6	7912	354			
						1953	26	8520	4.8	407	22	8437	398	14	8716	408
						1954	25	7946	4.8	381	22	8000	381	18	8765	419
						1955	14	8189	4.7	384	13	8386	384	13	8687	418
						1956	8	9194	4.5	417	5	8894	399	4	8344	415
						1957	4	9668	4.2	408	3	10657	479	3	9647	457
						1958	2	9670	4.4	426	2	9500	484	2	9107	453

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						GULDNSEY										
						1959	1	10300	4.2	428	1	9120	382			
						1960	1	12610	4.6	565	1	12360	571	1	12273	562
349288	1	1	6880	5.3	366	1957	1	6880	5.3	368	1	8330	454	1	8753	467
349633	75	188	7896	4.6	362	1949	4	8343	4.7	391						
						1950	12	8208	4.7	388	4	8505	405			
						1951	31	8064	4.7	381	19	7857	370			
						1952	33	8049	4.6	371	27	7551	349			
						1953	29	7997	4.5	361	27	7652	356	23	7651	346
						1954	30	7595	4.6	337	26	7573	350	27	7940	364
						1955	16	7884	4.5	355	14	7999	377	14	8117	376
						1956	10	8539	4.5	386	7	7840	375	7	8119	362
						1957	6	8407	4.6	363	5	9454	434	4	8366	366
						1958	9	9267	4.5	423	6	7906	366	5	8171	372
						1959	6	8310	4.7	396	6	7663	377	5	8749	466
						1960	2	8185	4.4	358	2	7450	341	2	7363	344
349653	3	7	6030	5.0	297	1950	2	6450	4.9	310						
						1951	3	5940	5.1	307						
						1952	1	4770	4.7	225						
						1954	1	7340	4.6	340						
349877	2	7	7096	4.5	318	1948	1	8290	4.5	370	1	8100	360			
						1949	1	7730	4.2	326	1	7740	355			
						1950	1	8740	4.4	384	1	8460	396			
						1951	1	6250	4.1	258	1	6130	299			
						1952	1	5790	4.0	229	1	6850	317			
						1953	1	7370	4.2	307	1	7460	356	1	6529	310
						1954	1	6830	4.7	324	1	7060	323	1	8197	366
350370	4	11	7125	5.0	348	1950	1	6820	5.0	341	1	6730	364			
						1951	3	8185	5.0	409	3	7560	364			
						1952	3	4633	5.4	253	2	4610	228			
						1953	2	7100	5.5	379	2	8030	390	1	6126	291
						1954	1	5490	5.3	292	1	7210	335			
						1956	1	8910	4.3	381						
350371	2	6	6269	4.2	265	1948	1	6820	4.4	299	1	7480	339			
						1949	1	6280	4.2	263						
						1950	2	5515	4.3	239	2	7170	299			
						1951	1	6280	4.0	251	1	7130	319			
						1952	1	7160	4.2	301	1	7440	344			
350867	1	1	7720	4.0	306	1958	1	7720	4.0	306	1	10530	521	1	9472	464
351118	5	10	7710	4.7	363	1954	1	6330	4.7	300	1	8760	411	1	8273	409
						1955	2	8995	4.6	411	2	7620	361	2	8906	431
						1956	4	7843	4.7	369	4	8205	396	1	8099	374
						1957	2	8236	4.7	380	2	11200	488	1	7652	363
						1958	1	10500	4.4	459	1	9540	452	1	10867	510
352592	23	59	7661	4.9	376	1951	3	6247	4.9	308	2	9090	379			
						1952	13	7386	4.8	354	11	8563	398			
						1953	13	7635	4.9	377	13	8422	393	10	8519	390
						1954	10	7879	5.2	404	9	8120	387	8	8870	437
						1955	9	8690	4.8	420	7	8693	404	8	8436	407
						1956	3	8405	4.4	367	3	6277	309	1	8840	417
						1957	4	7808	4.5	358	3	7623	460	3	9919	472
						1958	3	8577	4.9	423	3	9193	405	1	9014	445
						1960	1	10750	4.9	525	1	11950	567	1	12273	562
352695	13	33	8262	4.8	396	1951	2	8510	5.0	426	2	8610	421			
						1952	8	8040	4.7	378	7	8580	407			
						1953	9	8399	4.9	411	9	8561	428	7	8759	434
						1954	6	8410	5.0	420	5	8164	429	4	9110	452
						1955	3	9320	5.1	478	3	9393	484	3	8411	424
						1956	1	9980	5.1	511	1	9570	345			
						1957	2	8715	5.1	443	1	9270	447	1	9875	501
						1958	2	8255	4.9	402	2	8575	410	1	8982	459
353034	2	4	8355	4.9	406	1950	2	9010	5.0	443	1	10720	426			
						1953	1	6260	5.1	320	1	11110	435			
						1954	1	4990	4.9	246	1	11200	435			
353269	30	87	7209	4.9	351	1949	1	7710	4.7	366						
						1950	12	7313	4.9	350	4	7375	351			
						1951	16	6569	5.1	332	12	7259	352			
						1952	17	6986	5.1	353	17	7165	336			
						1953	13	7325	5.1	370	13	7266	346	10	7701	365
						1954	11	7966	4.9	390	10	6757	329	11	7417	356
						1955	7	6771	5.6	336	7	7490	361	7	7453	363
						1956	5	7856	4.7	368	5	7332	347	5	7538	360
						1957	3	7190	4.6	332	3	7893	387	2	7783	367
						1958	1	11690	4.0	468	1	8130	389	1	7968	387
						1959	1	9760	4.0	385	1	8160	352	1	8055	351
353771	1	1	10080	4.3	432	1951	1	10080	4.3	432						
353790	4	7	8765	4.9	424	1954	1	7650	5.0	379	1	9470	471	1	8938	448
						1955	2	8970	4.8	430	1	9240	475	1	9254	455
						1956	1	8846	5.3	473						
						1958	1	9720	5.1	491	1	9160	451	1	9603	472
						1959	2	8290	4.7	387	2	9540	439	2	9325	427

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
GUERNSEY																
354073	85	163	8346	4.9	405	1949	3	8835	5.3	464						
						1950	1	7820	5.2	409						
						1951	2	8100	4.6	372						
						1952	10	9296	4.7	435						
						1953	29	8512	4.9	416	9	9439	412			
						1954	36	7986	4.8	386	24	8583	391	18	8412	391
						1955	33	8208	5.0	406	33	8166	376	25	8912	412
						1956	17	8055	5.1	409	28	8536	393	23	8033	387
						1957	12	8133	4.9	397	15	8078	383	8	8036	397
						1958	8	10105	5.1	518	10	8694	405	10	8661	407
						1959	11	9521	4.7	447	8	9190	437	7	9721	461
						1960	1	6700	5.0	355	10	9471	440	9	10235	488
354147	35	72	7385	4.8	354	1951	3	7565	4.6	350	1	7515	355			
						1952	11	7359	4.7	359	2	7564	356			
						1953	18	7509	4.9	364	18	7739	373	14	7698	357
						1954	17	7900	5.0	391	17	8017	379	17	8166	380
						1955	8	7753	5.0	380	8	8473	367	8	8606	404
						1956	7	7981	4.7	367	7	8467	402	5	8794	403
						1957	4	6945	4.9	341	3	8550	388	3	8778	423
						1958	2	6690	5.1	346	2	8580	400	2	9058	417
						1959	2	8725	4.7	410	2	7610	363	2	8601	419
354224	82	176	7334	4.6	337	1952	6	7307	4.6	337	6	7680	360			
						1953	27	7824	4.8	369	25	7502	360	19	8146	394
						1954	47	6795	4.7	315	44	7445	352	38	8256	397
						1955	26	7301	4.5	328	25	8425	388	19	8405	399
						1956	20	7995	4.6	367	19	9408	433	1	8208	364
						1957	16	8246	4.5	370	12	8787	410	8	8548	413
						1958	17	7220	4.6	333	16	8011	382	10	8210	323
						1959	17	7669	4.6	349	16	7768	361	16	8266	391
354789	17	32	6609	4.8	321	1951	1	7070	5.0	351	1	8650	431			
						1952	10	6663	4.9	330	6	8158	371			
						1953	9	7384	4.9	360	6	7510	365	5	7924	377
						1954	5	6714	4.8	322	4	7703	346	2	7614	358
						1955	5	7042	4.8	342	5	7714	360	4	7421	350
						1956	2	8170	5.3	435	1	6740	328			
354977	34	73	7666	4.5	346	1951	1	9430	4.5	420	1	9550	466			
						1952	12	7804	4.6	355	11	8527	418			
						1953	19	7854	4.6	358	19	8376	384	13	8801	409
						1954	18	8074	4.5	361	16	8454	375	16	8875	408
						1955	8	8623	4.5	385	8	9098	415	7	9198	430
						1956	9	7552	4.5	339	8	8585	409	7	8603	413
						1957	1	9220	4.8	446	1	8760	475	1	7102	504
						1958	3	8290	4.6	379	3	8600	418	1	9505	495
						1959	2	7520	4.8	356	2	8100	420	2	9151	464
355910	25	36	7363	4.7	348	1954	7	6776	4.7	317	6	7062	335	6	7447	342
						1955	8	7044	4.9	343	8	7538	365	8	8046	370
						1956	9	6947	5.0	347	4	6583	309	3	7575	352
						1957	4	6975	4.7	325	4	9513	422	3	7884	370
						1958	4	8333	4.8	403	4	9453	446	4	9559	449
						1959	3	9600	4.4	418	3	9190	413	3	9905	454
						1960	1	10630	4.6	484	1	7950	429	1	9472	463
356455	3	7	9383	5.3	495	1953	1	9390	5.4	510	1	9150	440	1	8894	440
						1954	2	9690	5.4	517	2	8500	394	1	9668	462
						1955	1	8880	5.1	456	1	9640	441	1	8426	399
						1958	1	4850	6.2	300	1	9080	438			
						1959	1	10380	5.4	560	1	8870	427	1	10137	482
						1960	1	9380	5.0	465	1	8430	295	1	8142	383
357179	13	31	7522	4.9	365	1949	1	7920	5.2	410						
						1950	3	6950	4.7	332	1	7520	333			
						1951	5	8062	4.9	392	3	8327	376			
						1952	7	6347	4.9	312	6	8297	374			
						1953	5	7230	5.0	361	5	8018	380	5	7778	371
						1954	2	8380	4.7	391	2	8295	408	2	8655	411
						1955	2	8990	4.5	395	2	8745	426	2	8797	427
						1956	2	9665	4.6	434	2	8545	405	1	8273	456
						1957	1	7160	5.3	383	1	8350	420	1	9832	449
						1958	2	10595	4.5	466	2	9790	425	2	10219	428
						1959	1	7270	5.4	394	1	8690	417	1	10410	476
357326	8	22	8052	5.0	404	1949	1	8650	4.2	363	1	12100	440			
						1950	5	8513	5.2	442	1	6950	337			
						1951	4	8238	5.1	420	3	10057	376			
						1952	7	7676	5.2	398	4	8420	369			
						1953	3	7997	4.3	351	3	8693	369	3	8193	355
						1954	3	7850	5.1	404	2	7745	382	2	7521	374
						1955	1	7100	5.5	378						
358092	18	27	6976	4.9	338	1954	4	7878	4.7	369	4	8038	353	4	7279	333
						1955	11	6458	5.0	324	11	8276	383	11	7860	368
						1956	7	7183	4.9	354	6	9950	449	3	9003	428
						1957	5	7497	4.7	350	2	9480	437	1	9123	446
						1959	1	8460	5.2	441	1	9920	401	1	10213	446
1960	1	7540	5.1	388	1	10030	407	1	10192	460						
358118	4	5	8065	4.9	397	1951	1	7430	4.5	335	1	9900	434			
						1952	2	6885	4.8	328	2	8350	364			
						1953	1	8110	5.4	440	1	6790	326	1	6224	303
						1958	1	9840	4.8	475	1	9480	428	1	9025	403

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY MILK LB.	HERO AVERAGE FAT LB.
GUERNSEY																
359066	5	15	7854	4.9	387	1952	1	8130	5.5	445						
						1953	1	9090	4.5	408						
						1954	4	7910	5.2	407	2	7140	340	2	8443	399
						1955	2	8225	5.0	412	1	7520	360	1	7347	371
						1956	1	7070	4.6	326						
						1957	4	7998	5.1	408	1	8990	466	1	9069	488
						1958	1	7690	4.4	341	1	8600	406			
						1959	1	8710	5.2	449	1	9080	459	1	9919	506
359912	10	22	7307	4.9	356	1951	1	6730	5.1	344						
						1952	7	6840	5.0	342	5	7922	372			
						1953	6	7995	4.8	384	6	8008	379	6	7739	351
						1954	4	7923	4.5	357	4	8633	396	4	7900	366
						1955	1	6340	4.8	305	1	7490	357	1	7859	377
						1956	2	6210	5.0	306	2	8350	391	2	7663	368
						1957	1	7860	5.2	405	1	12330	544			
359919	29	84	8883	4.6	407	1949	3	9987	4.7	469						
						1950	3	7817	4.9	304	3	10440	426			
						1951	12	8306	4.7	388	8	9126	395			
						1952	11	7815	4.8	378	11	9245	396			
						1953	15	8805	4.7	413	15	9356	401	6	9637	382
						1954	8	8806	4.5	399	8	9216	396	5	8286	392
						1955	9	10346	4.4	460	9	9665	400	5	8534	408
						1956	8	9728	4.5	443	8	10373	452			
						1957	7	9301	4.4	407	6	10630	446	2	9254	455
						1958	3	9473	4.4	417	3	8100	355	1	7924	373
						1959	4	9665	4.6	441	4	8645	413	4	8911	421
						1960	1	10740	4.4	472	1	10470	485	1	11064	530
360631	1	1	5950	4.8	284	1953	1	5950	4.8	284	1	9100	429	1	7325	323
361559	10	18	7585	5.1	382	1952	2	7725	4.7	364	1	8520	372			
						1953	1	5360	5.0	266	1	6200	291	1	6900	334
						1954	3	7886	5.1	406	1	7830	409	1	9091	410
						1955	1	7410	4.9	362	1	7970	399			
						1956	2	9045	5.5	492	1	9180	475			
						1957	3	8017	5.1	409	2	7760	409	2	8377	454
						1958	3	7743	5.1	397	3	8210	421	2	8704	463
						1959	3	7493	5.2	384	3	7747	391	3	8589	449
362239	7	14	6687	4.9	322	1952	4	7265	4.7	335	4	7705	372			
						1953	5	6118	5.2	315	5	6996	341	5	7519	365
						1954	4	5555	5.4	295	4	7545	365	4	7818	384
						1955	1	4170	5.1	211	1	7400	364	1	7379	360
362642	7	16	7781	4.6	355	1953	5	7908	4.5	357	5	7246	344	4	7859	360
						1954	4	7023	4.7	334	4	7048	339	4	8009	377
						1955	1	9710	4.0	392	1	7570	369	1	9559	428
						1957	1	10340	4.6	480	1	8270	392	1	8742	426
						1958	2	10070	4.6	474	2	8715	404	1	9418	448
						1959	2	8745	4.4	382	2	7760	369	2	8911	423
						1960	1	8510	4.5	381	1	9080	437	1	9407	437
363323	25	61	7139	4.8	337	1949	1	8730	4.5	371	1	10810	433			
						1950	11	7516	4.9	366	5	7044	350			
						1951	14	7431	4.7	352	8	8464	386			
						1952	16	7045	4.8	336	11	8035	375			
						1953	5	8210	4.6	382	5	7920	382	4	8303	394
						1954	8	7953	4.6	366	6	7746	368	5	8367	397
						1955	4	7350	4.6	337	4	7470	353	3	8535	394
						1957	1	8930	4.5	406	1	9230	436	1	8371	405
1958	1	8560	4.5	387	1	9980	483	1	9211	439						
363416	4	8	7093	4.8	340	1951	4	7328	4.7	343	3	8533	384			
						1952	1	8340	4.4	370	1	8210	411			
						1953	2	7560	5.2	391	2	9140	385	1	8164	382
						1954	1	7800	4.4	344	1	7180	362			
363701	1	2	5180	5.2	268	1953	1	5120	5.2	265	1	6640	317	1	8012	281
						1954	1	5240	5.2	271	1	6620	315	1	7499	324
364507	11	13	8734	4.9	432	1957	5	9128	4.7	432	1	7340	334	2	8660	410
						1958	5	8588	4.9	425	5	8636	404	4	8548	398
						1959	3	8413	5.1	432	3	8357	413	3	8746	434
364803	51	77	8514	4.7	385	1953	5	7378	4.6	355	5	7206	333	4	7726	357
						1954	12	8098	4.5	359	11	8044	378	10	7767	364
						1955	18	8091	4.6	374	18	8006	362	16	7588	362
						1956	9	8588	4.6	391	7	8816	426	2	8557	422
						1957	12	9065	4.9	441	9	8501	424	9	8832	437
						1958	12	9286	4.9	447	11	9364	436	8	9249	430
						1959	7	9369	4.7	437	7	8516	405	7	9190	440
						1960	2	7900	4.6	362	1	8710	420			
364825	1	4	8323	5.1	428	1955	1	9100	4.9	444	1	7820	388	1	8655	433
						1956	1	9210	5.2	482	1	6620	308			
						1958	1	7670	5.6	430	1	8470	412	1	9014	436
						1959	1	7310	4.8	354	1	7330	387	1	8982	441
364955	1	3	6530	5.4	352	1957	1	6500	5.4	349	1	7530	352	1	7292	352
						1958	1	6390	5.4	343	1	7600	360	1	7913	377
						1960	1	6700	5.4	364	1	7290	322	1	7009	330



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																	
365001	8	16	7924	5.2	417	1955	2	7880	5.5	438	2	8575	423		2	8758	419
						1956	2	6380	4.8	309	2	7695	377		1	8099	374
						1957	5	7696	5.2	403	4	10140	467		4	9434	458
						1958	4	9126	5.6	513	4	9218	428		3	9312	452
						1959	1	9570	5.7	546	1	10020	485		1	11085	564
						1960	2	10245	5.4	557	2	10750	477		2	10148	461
366082	10	20	8196	4.8	392	1955	4	8945	4.7	416	4	9503	456		2	8786	410
						1956	7	7866	4.8	378	3	9655	475		3	9105	445
						1957	2	7455	5.0	375	1	8090	429		1	9189	471
						1958	3	8040	4.6	385	3	9450	454		3	9610	465
						1959	3	8667	4.9	426	3	8963	458		1	8851	467
						1960	1	7970	4.9	394	1	8640	444		1	8582	428
366648	9	16	7689	4.5	347	1953	1	8790	4.9	428	1	7770	346		1	7456	349
						1954	6	7805	4.6	358	6	8507	396		5	8033	377
						1955	6	6883	4.6	314	6	7600	369		6	8162	389
						1956	2	8840	4.3	382	2	8940	409				
						1957	1	7460	4.3	322	1	7350	366		1	7576	365
367978	40	59	8675	4.8	410	1954	3	7933	5.0	390	3	9523	381		3	7885	374
						1955	13	7981	4.9	389	5	8006	344		4	7521	350
						1956	10	8191	4.6	378	3	8203	371		3	8582	393
						1957	11	9729	4.5	436	8	8858	416		8	8506	406
						1958	10	9242	4.8	443	9	8588	412		6	8912	431
						1959	12	9035	4.9	432	12	9058	415		8	9757	455
367979	7	17	6292	4.9	308	1949	2	5555	5.1	283							
						1950	7	6406	5.0	314	2	7240	345				
						1951	2	5610	4.9	271	1	6600	302				
						1952	2	6510	5.1	351	2	6180	308				
						1953	2	6555	4.9	318	2	6050	289		2	7036	332
						1954	1	6920	4.9	339	1	5890	286		1	6823	307
1955	1	6710	4.5	302	1	6910	320		1	6867	330						
368573	11	16	7499	4.6	342	1953	4	8210	4.9	398	4	7990	370		4	7398	353
						1954	4	7003	4.4	309	4	8043	350		4	8063	351
						1955	4	7728	4.4	337	4	9155	402		4	8963	355
						1956	2	6555	5.0	318	2	9295	383				
						1958	1	9300	4.3	397	1	12060	441		1	11728	438
						1959	1	6830	4.7	323	1	9070	434				
369733	2	8	6850	5.3	363	1951	1	7980	5.0	395							
						1952	2	6620	5.1	357							
						1953	2	7085	5.4	382							
						1954	2	5845	5.5	324							
						1955	1	8360	5.3	443							
371457	12	20	7641	4.4	337	1954	2	6510	4.0	253	2	6590	324				
						1955	7	7569	4.5	340	7	8377	385		7	7804	368
						1956	5	8100	4.6	367	2	7450	364		1	8764	401
						1957	2	0805	4.2	370	1	9200	436		1	8371	405
						1958	2	9255	4.4	409	2	9755	465		2	8949	423
						1959	2	9655	4.7	448	2	8755	423		2	9058	445
372372	19	34	8086	4.8	386	1953	4	8780	4.7	415	4	7635	350		3	7231	348
						1954	6	7925	4.6	365	6	7477	339		5	7652	365
						1955	9	7614	4.7	358	9	7814	357		8	7969	375
						1956	4	8548	4.7	400	4	8633	388		2	8404	395
						1957	3	8820	4.7	418	2	8635	418		2	8769	431
						1958	3	9267	4.8	442	3	9553	441		3	10035	450
1959	3	9030	4.8	433	3	9890	450		3	9868	444						
1960	2	6690	5.1	334	2	10350	398		1	10192	460						
372762	9	14	6576	4.9	320	1954	1	2540	5.6	141					1	8480	379
						1955	3	6883	4.7	323	3	8657	357		3	8992	365
						1956	3	6933	5.2	360	2	10925	399				
						1957	2	7010	5.4	373	1	11860	460		1	10093	375
						1958	3	7223	4.9	351	3	9660	363		2	8170	352
						1959	2	6980	4.7	324	2	9295	401		1	10660	463
374436	12	23	5578	4.9	270	1950	7	5455	4.8	257	1	6540	297				
						1951	6	5750	5.3	303	3	7603	355				
						1952	5	5764	4.9	280	4	7095	328				
						1953	2	6945	5.0	346	2	6505	303		2	7036	332
						1954	2	5350	4.9	262	2	6365	297		2	6360	295
						1955	1	5800	5.1	294	1	6800	318		1	6867	330
375262	64	121	7428	4.9	360	1953	4	6025	4.6	274	3	7260	346		3	7884	371
						1954	24	7168	4.8	342	22	7578	357		21	7655	356
						1955	26	7264	5.0	367	24	7892	375		24	8055	386
						1956	24	7634	4.9	373	10	7774	380		13	7899	381
						1957	14	8043	5.0	404	11	8145	390		10	8248	398
						1958	12	8802	4.8	425	12	9128	445		6	8529	407
1959	13	8301	4.8	394	13	7841	370		9	8322	405						
1960	4	8745	4.6	397	4	9460	449		4	9761	467						
375476	25	56	7516	4.8	358	1953	10	7965	4.6	361	9	7740	370		8	7812	372
						1954	11	7591	4.8	360	11	7677	362		6	8553	395
						1955	13	8048	4.6	302	12	8813	412		12	8217	393
						1956	9	7423	4.9	367	6	8093	368		1	7729	361
						1957	8	8436	4.7	400	8	9706	446		5	9134	474

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
GUERNSEY																
						1958	1	7750	5.0	387						
						1959	4	8263	5.1	426	4	8658	389	4	8415	416
375956	24	34	8189	4.7	376	1955	4	7738	4.5	344	4	7993	370	4	7791	381
						1956	7	8193	4.7	381	7	8287	379	4	8159	378
						1957	6	8170	4.9	399	6	9262	418	6	8509	391
						1958	7	8843	4.5	346	7	8160	380	7	8508	373
						1959	7	6633	4.9	337	7	8494	392	7	8958	419
						1960	3	10170	4.1	415	3	10043	467	3	10381	477
376428	9	14	8460	4.9	410	1955	2	7120	5.3	371	1	9300	452	1	8829	431
						1956	6	8570	4.8	415	3	8493	382	2	8382	410
						1957	2	8425	4.9	412	1	9160	460	1	8694	462
						1958	2	8350	4.9	403	2	10470	483	2	9358	440
						1959	2	9990	4.6	472	2	10690	474	2	10660	463
378211	26	35	7770	4.9	380	1954	3	5660	5.0	282	3	6407	307	1	9025	420
						1955	8	8325	5.0	412	7	8266	392	7	8025	380
						1956	11	7871	4.8	374	4	8990	415	3	8204	391
						1957	6	7912	5.1	405	2	8770	427	2	8377	389
						1958	5	8676	5.0	434	3	8610	415	2	8371	398
						1959	2	7345	4.9	362	2	8775	403	2	9298	432
378817	9	13	5916	4.9	285	1949	1	8200	4.9	401						
						1950	8	6008	5.1	361	2	6780	311			
						1951	1	5010	4.5	228						
						1952	1	7040	5.0	353	1	6570	319			
						1953	1	5370	4.1	221	1	7820	263	1	6104	284
						1955	1	5060	4.6	230	1	6580	280			
379127	1	3	7523	5.1	384	1951	1	7670	5.4	413	1	9960	393			
						1952	1	7570	5.0	382	1	10960	426			
						1953	1	7330	4.9	357	1	11090	434			
381667	1	2	7820	4.9	380	1953	1	7830	4.9	382	1	7010	359			
						1954	1	7610	4.8	378	1	7000	350	1	6802	391
383136	6	9	7716	4.6	355	1952	4	7805	4.4	339	4	6998	345			
						1953	3	7890	4.8	374	3	8443	400	3	7714	348
						1954	1	8440	4.4	374	1	6640	287	1	8448	376
						1955	1	9240	4.2	369	1	9640	357			
384338	1	1	5460	3.8	209	1956	1	5460	3.8	209	1	7210	349	1	8640	411
384931	2	2	9495	4.9	465	1957	2	9495	4.9	465						
385258	3	4	5855	5.1	300	1953	1	9970	5.3	526	1	8640	403	1	9080	405
						1954	1	2580	5.0	129	1	8790	409	1	9091	410
						1956	1	6640	4.9	325	1	7770	383	1	8458	467
						1957	1	4650	5.3	246	1	9130	398	1	9505	402
385934	15	40	7805	4.9	377	1951	8	8661	4.8	414	6	8603	414			
						1952	6	7986	5.0	393	6	8540	389			
						1953	10	8524	4.9	407	10	8661	412	8	8391	399
						1954	8	7953	4.9	389	8	8465	400	8	8505	396
						1955	4	7143	5.1	360	4	8883	421	4	8625	427
						1956	1	9800	4.5	444	1	9420	419			
						1957	1	10130	4.3	435	1	8820	390	1	9363	423
						1958	1	5980	5.6	335	1	8220	334	1	7924	323
						1959	1	3330	3.7	124	1	7380	323	1	6077	341
385940	6	11	7847	4.9	381	1952	1	5880	4.5	264	1	10960	432			
						1953	3	8837	5.0	437	3	7720	372	3	8063	380
						1954	4	8435	5.1	423	4	8675	402	3	8284	399
						1955	1	10870	4.9	538	1	9460	342			
						1956	1	8380	4.7	394	1	8540	435			
						1956	1	8320	4.7	390	1	8050	387	1	8426	404
386910	14	25	7846	4.7	371	1951	3	8670	4.1	357	3	9847	376			
						1952	5	8164	4.6	373	5	9064	417			
						1953	8	7695	4.8	363	7	8929	377	7	7586	329
						1954	4	7945	4.8	383	4	6725	299	4	7499	351
						1955	4	7460	4.7	349	4	9228	370	4	9268	370
						1956	1	7150	5.0	357	1	8020	366	1	7336	330
386975	9	17	7893	5.0	393	1955	3	7553	5.2	393	3	8417	403	3	8640	412
						1956	6	7928	5.0	393	5	8552	397	2	8099	374
						1957	3	7237	4.8	341	3	8363	390	2	8039	390
						1958	3	8407	5.2	436	2	8615	410	2	8110	367
						1959	2	8130	4.7	378	2	7585	354	2	8464	379
387701	6	16	7001	5.2	362	1952	1	9800	4.3	419	1	8010	368			
						1953	1	7970	5.4	428	1	7160	363	1	8121	389
						1954	4	7398	5.2	366	4	8435	395	3	8469	385
						1955	3	7947	5.5	435	3	8230	387	3	8218	387
						1956	6	6788	5.1	344	4	9465	405			
						1957	1	5930	5.0	296	1	9140	400	1	9363	423
388479	4	5	8415	4.4	364	1953	3	8210	4.6	375	3	7743	384	3	6932	356
						1954	2	7875	4.1	316	2	7975	329	2	9511	392
389666	37	66	7042	4.7	328	1951	3	6193	4.8	294	1	7090	285			
						1952	9	8076	4.5	367	8	7640	341			
						1953	17	7059	4.6	321	17	7453	347	14	7791	365
						1954	16	6882	4.9	334	16	7302	351	16	7563	356
						1955	8	6369	4.9	308	8	7326	351	8	7563	372
						1956	6	7290	4.5	313	5	8678	386	3	7928	369

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1950	5	7638	4.6	354	5	8090	367	2	9189	474
						1959	2	4625	4.6	212	2	7505	342	2	8770	409
391684	9	12	9435	4.7	436	1956	1	9710	5.6	406	1	8570	413	1	8764	401
						1957	1	10480	5.1	337	1	9770	497	1	8480	404
						1958	2	9535	4.5	425	2	9705	455	1	8993	407
						1959	6	9438	4.7	431	6	9097	430	6	9547	446
						1960	2	9245	4.7	424	2	11085	469	1	10638	499
392029	1	1	9730	4.1	400	1956	1	9730	4.1	400	1	7190	355	1	7183	355
392288	2	5	7966	5.2	423	1954	1	5930	4.7	280	1	7870	377	1	6851	425
						1955	1	4640	4.5	216	1	3730	411	1	9516	451
						1958	1	9610	5.8	555	1	12070	600	1	10388	518
						1959	1	10810	5.6	608	1	9630	471	1	10987	535
						1960	1	11220	5.6	630	1	11650	569	1	10660	538
393396	14	24	7666	4.3	329	1956	1	9460	4.5	409	1	7580	337	1	7532	346
						1957	8	7541	4.2	316	6	8407	371	6	9266	407
						1958	8	7644	4.3	331	8	8518	386	3	9044	414
						1959	5	8456	4.2	354	5	8704	376	5	8951	413
						1960	2	9180	4.3	364	2	9130	424	2	9211	419
393398	2	3	7720	5.4	413	1955	1	7490	5.1	381	1	9410	435	1	7445	403
						1956	1	6890	5.4	375						
						1957	1	9010	5.7	513						
395047	5	6	6898	5.5	374	1953	1	6800	5.2	351						
						1954	1	6430	5.0	323	1	8480	424	1	9145	408
						1955	2	7495	5.3	394	1	9060	470	1	8687	445
						1956	1	7020	5.1	356	1	7830	354	1	8458	407
						1958	1	6660	6.4	423	1	9670	501	1	10224	549
396784	1	1	7270	5.4	395	1956	1	7270	5.4	395						
397073	27	38	8983	4.4	397	1954	2	7750	4.7	363						
						1955	6	8867	4.1	370	5	8508	405	5	8169	380
						1956	8	9280	4.4	406	2	8370	400	1	9875	482
						1957	10	8447	4.7	399	5	9722	459	5	8876	442
						1958	3	8113	4.9	399	5	8465	379	2	9843	451
						1959	6	9459	4.4	413	8	9493	429	5	11534	507
						1960	1	10010	4.5	429	1	9620	420	1	10715	479
397313	24	45	9071	4.9	442	1954	2	8755	4.6	394	2	8645	389	1	8557	386
						1955	5	7966	5.1	400	5	8422	402	5	8768	421
						1956	4	8603	4.9	419	4	9113	427	4	9012	431
						1957	4	9398	4.9	453	5	3667	427	3	9174	466
						1958	14	9521	4.9	466	14	8874	436	13	9127	446
						1959	12	8988	4.9	443	12	9158	445	11	9553	467
						1960	4	9018	4.9	441	4	8828	421	3	9763	466
400315	4	8	7460	5.3	397	1952	1	7150	5.2	374						
						1953	3	7167	5.2	377						
						1954	3	7353	5.2	385						
						1955	1	8350	5.5	459						
400613	11	13	8940	4.5	402	1955	1	9460	4.4	413	1	7120	329	1	7903	372
						1956	1	9430	4.1	303	1	8050	410			
						1957	1	9470	4.6	462	1	8150	364	1	8153	377
						1958	6	8412	4.7	393	6	8598	401	5	8677	409
						1959	3	9590	4.5	425	5	9303	451	3	9145	456
						1960	1	10270	4.2	427	1	8050	386			
401055	12	16	7826	4.6	363	1954	1	4760	4.4	208	1	7220	342	1	7401	359
						1955	4	7568	4.9	369	4	7950	381	4	8445	396
						1956	5	7070	4.5	318	2	9215	445	1	8600	423
						1957	1	7230	4.9	350	1	8060	425	1	8044	456
						1958	2	9565	4.6	457	2	8740	432	2	9216	447
						1959	3	10270	4.6	466	5	8857	415	2	9178	442
401063	52	46	8468	5.1	427	1954	1	8440	5.1	434	1	9370	464	1	8938	448
						1955	12	8326	5.1	420	6	8535	419	8	8636	421
						1956	14	7336	5.2	379	7	9791	426	4	9069	453
						1957	5	8730	5.0	433	4	9653	454	4	8657	404
						1958	6	8105	5.0	405	6	8652	421	5	9058	442
						1959	7	9574	5.1	462	6	9508	446	5	10296	497
						1960	1	9400	5.3	495	1	8360	410	1	8382	428
401801	25	60	8294	4.6	382	1951	2	8840	4.4	385	2	9410	436			
						1952	2	8740	4.7	404	2	9750	410			
						1953	6	8423	4.6	385	6	8312	376	3	8902	402
						1954	8	7754	4.5	349	8	7298	368	7	8245	372
						1955	7	8064	4.3	349	7	7797	377	7	8191	374
						1956	5	8288	4.5	377	4	8603	422	2	8515	384
						1957	7	8409	4.9	410	5	8960	425	5	8241	390
						1958	11	8737	4.7	409	11	8921	425	8	9055	431
						1959	8	8503	4.6	391	6	9084	417	8	9404	445
						1960	4	9108	4.5	403	4	9573	412	2	8350	392
403063	3	5	7246	5.1	353	1953	2	8705	4.5	390	2	7760	376	2	7390	356

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
						JURNESEY											
404005	7	7	8321	4.6	386	1954	2	5530	5.4	295	2	6210	311		2	7560	365
						1955	1	8100	4.5	368	1	10560	381				
						1956	4	7465	4.6	340	3	7393	340	3	8099	374	
						1959	2	8645	4.6	375	2	9010	430	1	9221	472	
405991	1	1	5130	5.0	259	1960	1	11100	5.0	551	1	11930	566	1	12273	562	
						1956	1	5130	5.0	259	1	6320	346	1	7183	355	
						1951	2	8490	4.8	400	2	7770	408				
						1952	6	7466	4.7	354	7	9054	370				
406136	32	71	7787	4.8	376	1953	15	7706	4.7	366	15	8118	363	7	7889	358	
						1954	10	7923	4.9	386	10	7771	352	10	8152	360	
						1955	13	7407	4.6	350	12	7692	368	13	7689	355	
						1956	10	7670	5.0	380	9	6419	406	3	6676	432	
						1957	6	7617	4.9	372	4	9035	427	4	8221	464	
						1958	2	9515	5.2	495	2	9265	456	2	9227	444	
						1959	4	9145	5.1	465	4	9620	459	4	10085	474	
						1960	1	8580	5.0	426							
						1959	1	10260	4.6	477	1	8690	402	1	9821	457	
						1951	1	11330	5.0	562	1	7940	379				
						1952	2	8120	4.6	363	2	8010	366				
						1953	3	7050	4.7	323	3	8267	400	3	8215	380	
						1954	5	7542	5.1	379	5	9060	405	3	9105	420	
1955	5	8572	4.5	386	4	8415	388	4	8577	396							
1956	1	6900	4.9	340													
1960	1	8450	4.6	391	1	8620	417										
407865	80	138	7237	4.6	334	1955	7	6523	4.8	303	7	7526	362	6	7675	378	
						1954	24	6850	4.5	309	24	7712	365	24	7943	361	
						1955	31	7326	4.6	341	30	8047	376	30	8140	388	
						1956	26	7436	4.7	350	23	8003	373	22	7798	368	
						1957	15	7695	4.7	373	14	8541	387	14	8277	390	
						1958	15	8081	4.6	365	15	8465	391	14	8695	403	
						1959	16	7588	4.6	350	16	8001	370	16	8771	415	
						1960	4	7670	4.6	358	4	7515	352	4	7704	367	
						1956	1	7130	4.5	321	1	7620	347	1	7532	343	
						1958	1	8050	4.7	380	1	9480	435	1	9416	443	
						1959	1	8566	4.6	395	1	9200	422	1	9374	443	
						1952	1	6410	5.5	354							
						1953	16	8252	4.8	371	16	7711	375	13	7712	377	
						1954	28	8295	4.7	384	26	7867	369	23	8302	400	
1955	33	8013	4.8	380	29	8569	362	24	7929	377							
1956	22	8270	4.8	393	18	8944	413	5	8458	405							
1957	25	8154	4.6	388	18	8128	364	12	8276	402							
1958	31	9147	4.6	420	28	8956	414	17	9041	426							
1959	21	9234	4.6	425	20	9361	431	18	10097	465							
1960	4	7773	4.7	365	3	7563	350	4	7681	375							
409783	24	46	6774	5.3	354	1953	2	6010	5.5	319	2	7185	333	1	6922	327	
						1954	14	6654	5.3	360	13	7893	369	10	8014	390	
						1955	17	7040	5.2	367	16	7734	370	16	7691	366	
						1956	6	7278	5.6	403	4	8540	375	2	7897	379	
						1957	4	6393	5.5	351	3	9237	429	2	8584	410	
						1958	1	9146	5.1	470	1	8730	396	1	8546	403	
						1959	2	7795	5.1	392	2	9415	446	2	9870	450	
						1954	2	9395	4.5	417	2	9535	427	1	10573	473	
1959	1	8700	4.0	332													
1960	1	8680	5.2	447	1	9200	423	1	9407	456							
410890	8	20	6950	4.5	313	1953	6	7650	4.6	351	6	8033	376	6	8132	365	
						1954	4	6565	4.6	300	3	7400	348	4	7687	360	
						1955	4	7240	4.7	338	4	8163	383	4	7892	373	
						1956	2	7435	4.6	339	2	8475	362				
						1957	3	6493	4.5	297	3	9273	426	2	8164	393	
						1959	1	6050	3.9	237	1	8170	400				
						1953	1	5830	4.6	271	1	6460	297	1	6257	266	
1954	8	7764	5.0	383	8	8045	376	8	8140	379							
1955	10	8022	5.0	395	17	8398	400	17	8621	406							
1956	11	8772	4.7	414	6	8533	388	7	8060	379							
1957	11	7837	4.9	382	9	9061	434	7	8656	411							
1958	16	7607	4.7	364	16	8028	371	13	8402	337							
1959	18	8251	4.8	392	18	7902	381	17	8402	374							
1960	6	7420	4.9	371	5	8602	401	6	8678	395							
411383	26	54	7186	4.9	350	1951	5	5148	5.2	272	4	7230	343				
						1952	7	7157	4.9	353	7	8469	377				
						1953	12	7196	4.7	338	12	7532	340	10	7538	346	
						1954	6	8024	4.9	395	3	7784	356	6	8172	387	
						1955	7	7683	4.7	363	7	7873	379	7	7427	358	
						1956	7	8659	4.9	428	7	9123	409	2	8557	422	
						1957	2	8785	5.4	478	2	9720	475	2	9510	471	
						1958	4	8135	5.1	418	4	8260	355	4	8922	432	
						1959	2	3400	5.2	431	2	9270	454	2	9494	465	
						1952	5	8470	4.9	413	4	7995	375				
						1953	13	6673	4.6	304	13	7612	347	8	7249	334	
						1954	9	7870	4.6	370	9	7636	357	6	7676	363	
411385																	

TABLE 15.--DAUGHTER-AVERAGE OF SIKLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	AV. FAT LB.
GUERNSEY																
						1955	7	7286	4.6	346	7	8296	381	6	7845	366
						1956	5	7224	4.9	347	5	8174	382	2	8764	417
						1957	3	8003	4.6	358	3	8023	357	2	7658	354
411518	1	1	6690	4.4	303	1956	1	6690	4.4	303	1	8290	392	1	8219	303
411574	1	1	7560	5.3	401	1954	1	7560	5.3	401	1	8650	416			
411967	20	43	7095	4.6	325	1952	1	10990	4.6	501	1	7440	382			
						1953	7	7754	4.7	362	7	7507	359	6	7609	365
						1954	10	6034	4.7	282	10	7300	344	6	7545	357
						1955	10	7679	4.5	355	10	7746	360	9	7863	373
						1956	4	7658	4.7	352	4	8908	419	1	6164	372
						1957	2	8465	4.5	359	2	9580	451			
						1958	6	7427	4.6	340	5	8250	389	4	8813	451
						1959	2	7775	4.7	357	2	7965	373	2	7908	364
						1960	1	8220	4.8	393	1	8270	385	1	8644	411
415426	32	70	7086	5.1	356	1951	4	8075	4.9	402	4	8358	391			
						1952	10	6585	5.0	350	7	7876	364			
						1953	13	6417	5.1	324	13	7251	344	6	7303	351
						1954	8	6140	5.2	317	8	7731	347	5	9067	384
						1955	12	7971	4.6	379	12	8257	367	8	8157	361
						1956	6	7602	4.8	368	5	8556	388	1	8186	397
						1957	5	9012	4.9	450	4	9153	405	3	9578	412
						1958	6	8507	5.3	454	6	9040	453	5	8848	392
						1959	5	7310	5.5	357	5	8440	421	5	9407	460
						1960	1	6930	4.9	336	1	6420	396			
415428	22	45	7625	4.8	366	1952	3	6150	5.2	304	3	7840	347			
						1953	12	6990	4.7	321	12	7920	361	9	7161	337
						1954	10	7836	5.0	363	10	8140	363	8	8709	388
						1955	9	8574	5.0	425	6	8224	385	6	7982	377
						1956	6	8400	5.1	423	5	8942	414	4	8592	410
						1957	2	8930	5.1	444	1	9980	491	1	9897	496
						1958	1	8040	4.6	372	1	8970	454	1	10137	497
						1959	2	8445	5.1	453	1	10950	485	1	10660	463
417357	15	37	7508	4.8	355	1952	5	7928	4.6	366	5	8062	374			
						1953	6	7882	4.6	377	6	7572	350	4	7389	353
						1954	11	7401	4.8	352	11	7604	354	9	8210	365
						1955	8	8015	4.8	379	8	7950	365	8	7723	353
						1956	2	9515	4.6	441	2	8645	407	1	8627	393
						1957	2	8605	4.7	399	2	8605	405	2	8208	390
						1958	2	8275	4.7	388	2	8755	418	2	8535	407
						1959	1	6230	4.7	290	1	7260	342	1	7140	357
417592	2	4	7864	5.2	410	1955	2	7695	5.0	382						
						1956	1	7710	5.0	385						
						1957	1	8380	6.1	509						
418022	1	1	7890	4.3	340	1960	1	7890	4.3	340	1	8750	516			
419240	20	35	7315	4.5	329	1952	10	7992	4.4	352	9	8103	363			
						1953	10	7187	4.6	358	10	7897	360	7	7903	357
						1954	7	6527	4.6	288	7	7626	345	5	8711	393
						1955	6	7413	4.8	347	5	8574	386	5	8647	374
						1956	2	7640	4.4	357						
419988	1	2	8560	5.0	422	1958	1	11190	4.9	549	1	8450	411	1	8785	421
						1959	1	5930	5.0	294	1	9240	455	1	9974	477
421253	20	25	8264	4.9	401	1955	3	8757	4.6	419	2	9050	429	2	8987	413
						1956	11	7197	4.9	353	5	9500	442	4	8685	410
						1957	5	9084	5.0	452	1	10200	494			
						1958	4	9415	4.6	427	4	7223	387	3	8947	423
						1959	2	8250	5.0	415	1	9160	448			
421254	34	53	8155	4.8	389	1956	1	9140	4.4	401						
						1957	5	6284	4.6	290	5	6256	332	5	7900	375
						1958	25	8148	4.6	395	23	8112	392	18	8724	417
						1959	19	8462	4.6	409	19	8205	392	19	8768	424
						1960	3	9017	5.1	462	3	7583	358	1	7685	379
421269	10	15	8307	4.6	385	1954	1	5570	4.7	260						
						1955	3	8983	4.2	361						
						1956	6	8528	4.7	403						
						1957	2	7920	4.9	482						
						1958	3	9340	4.8	453	1	10060	481	1	10017	473
421539	12	15	9066	4.4	404	1956	2	6985	4.0	279	2	8260	393	2	8627	401
						1959	10	9748	4.5	443	9	8657	401	9	9288	456
						1960	1	9310	4.5	421	1	12500	512	1	12321	558
421753	4	7	8080	4.5	362	1953	3	8270	4.5	373	3	7597	375	3	7634	344
						1954	2	8955	4.9	429	2	7460	369	2	8225	405
						1955	1	8930	4.6	407	1	7710	368	1	7857	377
						1956	1	6556	4.0	265	1	9050	469			
422538	9	12	8528	4.5	386	1956	3	8660	4.3	371	2	8755	415	2	9739	477
						1957	4	7863	4.5	351	2	9680	455	2	9625	445
						1958	3	8020	4.6	365	2	9565	419	2	9607	459
						1959	2	7979	4.6	475	2	9910	440	1	10987	456
422644	5	11	6453	4.8	308	1953	3	7835	4.7	369	3	7267	330	2	7505	328
						1954	4	6205	4.6	277	4	7238	356	4	8175	371
						1955	3	6533	4.6	290	3	7460	347	3	7949	374



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONF. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						GUERNSEY										
						1956	1	5770	5.0	288	1	8510	394	1	8164	372
423028	6	11	9557	5.0	464	1956	4	9695	5.1	474	4	9053	436	4	8276	396
						1957	6	9567	5.0	464	5	9454	435	2	8851	444
						1960	1	10020	4.4	438						
423418	14	20	7697	4.8	369	1956	1	7590	4.5	339	1	7370	337	1	8099	374
						1957	2	6795	4.3	292	2	8955	413	2	8867	421
						1958	4	9025	4.8	425	4	9203	431	3	9542	442
						1959	11	7395	5.0	362	10	8471	394	9	9431	444
						1960	2	7370	4.9	359	2	8360	399	2	8361	404
423505	3	4	6493	5.5	356	1955	1	6370	5.8	370	1	4470	227	1	6415	417
						1956	1	5800	5.2	310						
						1959	1	5680	5.7	224	1	7880	394	1	8851	444
						1960	1	8940	5.1	452	1	8950	454	1	9080	450
424343	1	2	8635	5.3	454	1959	2	8635	5.3	454	2	6685	320	2	7259	349
424536	9	13	8464	4.6	387	1958	3	8133	4.5	390	3	8157	389	2	9592	447
						1959	9	8369	4.5	372	9	8544	402	8	9164	440
						1960	1	8200	4.9	403				1	8971	453
426151	18	33	6676	4.6	307	1952	3	7637	4.4	337	3	8000	419			
						1953	9	5752	4.7	271	9	7542	348	8	7509	344
						1954	8	7195	4.6	324	8	3906	376	7	8418	367
						1955	2	9090	4.7	421	2	10975	463	2	9712	442
						1956	3	7705	4.5	343	2	8445	392	1	8622	395
						1957	4	7663	4.1	327	3	9143	407	3	8829	409
						1958	2	8515	4.6	392	2	8770	410	2	10001	463
						1959	2	9160	4.6	420	2	9195	444	2	9778	477
426820	25	55	7666	4.6	351	1952	2	8240	4.8	396	2	8010	392			
						1953	6	8452	4.8	400	6	7845	389	6	8517	404
						1954	13	7321	4.7	341	13	7667	371	11	8387	467
						1955	6	7108	4.7	331	8	8058	377	7	7913	367
						1956	6	8515	4.6	385	6	8420	398	1	9330	468
						1957	7	7467	4.6	344	6	9000	429	5	8639	415
						1958	5	8154	4.4	359	5	8370	395	4	8074	385
						1959	5	7166	4.5	316	5	8036	372	5	8737	412
						1960	3	9070	4.4	402	3	7860	387	3	8698	424
427978	8	11	8092	4.9	396	1957	1	7370	5.2	384						
						1958	5	8570	4.7	406	5	7664	424	5	8875	415
						1959	4	7815	5.1	395	4	9095	422	4	9887	474
						1960	1	7530	5.2	390	1	9070	435	1	9418	468
428158	6	7	7781	4.9	376	1956	6	8067	4.8	383	6	3555	397	6	8524	402
						1959	1	4270	6.1	260	1	7760	354	1	8175	393
428868	9	9	9201	4.6	417	1959	8	9244	4.5	410	8	8654	418	8	9667	456
						1960	1	8860	5.3	468	1	11680	461	1	11423	497
428943	5	11	8103	4.7	380	1952	2	7830	4.8	379	2	7675	385			
						1953	4	8390	4.8	400	4	8713	406	4	8369	385
						1954	2	8740	4.4	366	2	8255	403	1	8633	383
						1955	1	9220	4.9	452	1	8200	423	1	7597	380
						1956	1	8200	4.7	362	1	7000	352			
						1958	1	8070	4.5	360	1	7370	373	1	7783	350
430197	27	33	8012	4.8	384	1958	6	6608	4.7	310	6	8515	389	6	8335	396
						1959	22	8495	4.9	412	22	8560	395	21	9426	435
						1960	5	7930	4.3	346	5	7342	355	5	8288	396
430265	29	33	9059	5.0	447	1955	3	9113	4.7	429	3	7513	307	3	7234	345
						1956	2	9545	4.8	454	1	8250	429			
						1957	3	9340	4.9	456	3	8163	427	3	8415	429
						1958	6	8780	5.2	454	6	8913	438	5	9101	450
						1959	15	9032	5.0	455	15	9092	426	15	9626	452
						1960	4	8890	4.6	400	4	8385	382	1	8491	393
430271	1	1	8320	5.4	451	1953	1	8320	5.4	451	1	7940	359	1	7706	371
430273	2	2	8025	4.8	380	1959	2	8025	4.8	380	2	8250	371			
430275	1	1	8490	4.0	336	1960	1	8490	4.0	338						
430463	29	46	8127	4.7	381	1956	1	7600	4.1	310	1	7370	338	1	8099	374
						1957	11	8217	4.7	307	6	9325	425	9	8691	410
						1958	17	8186	4.7	384	17	7245	410	14	9465	428
						1959	14	8091	4.8	386	14	8937	410	10	9368	432
						1960	3	8580	5.2	441	3	8730	414	3	8931	417
430950	61	116	6979	4.9	339	1953	13	6254	4.8	302	12	7537	356	8	7494	346
						1954	18	7446	4.9	364	18	3274	389	17	8170	376
						1955	21	6802	5.0	340	21	8360	386	21	8284	389
						1956	16	7066	4.8	336	13	8518	393	11	8237	396
						1957	16	7702	5.0	385	15	8501	392	13	8547	401
						1958	15	8065	4.9	390	15	8483	400	13	8666	414
						1959	13	8283	4.8	395	13	8545	396	13	8986	421
						1960	4	7943	4.8	378	4	8688	409	4	8832	423
432935	20	35	7755	4.8	373	1957	3	9167	4.9	449	3	9333	420	3	9454	424
						1958	12	7572	4.7	357	12	8266	383	12	8449	395

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GULDNSEY																
						1959	14	7652	4.6	369	14	8166	383	14	6554	399
						1960	6	8245	4.6	390	6	9190	411	5	9337	422
433371	1	1	9510	4.9	470	1959	1	9510	4.9	470	1	7700	374	1	8666	422
433364	38	69	7346	4.9	359	1952	2	6740	4.6	316	2	6940	401			
						1953	4	7053	4.8	341	4	8728	405	3	7848	326
						1954	12	7713	4.8	370	12	7764	364	12	8467	396
						1955	12	7286	5.1	370	11	8156	381	11	8248	399
						1956	10	7223	5.2	375	6	8623	392	2	8617	326
						1957	7	8435	4.6	390	6	8333	396	3	8458	390
						1958	10	8226	4.7	398	10	7776	380	6	8385	399
						1959	9	7630	4.7	361	9	9097	401	8	9600	437
						1960	3	6735	4.9	325	3	8063	346	3	6815	376
433924	2	3	8335	5.2	433	1958	2	8700	5.2	447	2	7130	410	2	8726	417
						1959	1	6200	5.2	323	1	9130	446	1	8851	444
434678	1	3	7647	4.3	330	1953	1	8900	4.6	407	1	7820	370	1	7706	371
						1958	1	8470	4.0	335	1	7780	397	1	7848	382
						1959	1	5570	4.4	247	1	7590	341	1	7761	370
435547	2	3	8015	5.0	395	1958	1	7360	4.8	351	1	9150	383			
						1959	1	8720	4.9	426	1	9370	393	1	9505	402
						1960	1	7990	5.0	400	1	7370	373	1	9450	406
436268	32	43	8644	4.6	393	1956	1	10680	4.3	463	1	9330	444	1	9036	440
						1957	2	9485	4.4	416	1	9310	452	1	9123	446
						1958	14	8697	4.6	399	14	9268	417	10	8870	410
						1959	22	8431	4.7	394	22	9575	436	20	9917	456
						1960	4	9360	4.5	418	4	9048	403	4	9344	419
436604	2	2	8400	4.8	403	1959	2	8400	4.8	403	2	7575	369	2	7532	362
437282	4	10	6740	4.6	308	1953	3	7260	4.5	327	3	7300	346	2	7647	358
						1954	3	7190	4.6	334	3	7040	331	3	7968	382
						1955	2	7505	4.2	320	2	7815	330	1	6518	324
						1957	2	6660	4.1	275	2	7565	362	1	7336	364
437432	1	2	8115	5.1	416	1958	1	8510	4.8	412	1	8020	418	1	7826	374
						1959	1	7720	5.4	419	1	7060	352	1	8851	444
437646	1	3	9833	4.8	476	1957	1	9040	4.8	437	1	12530	469			
						1959	1	10830	4.8	517	1	14200	538	1	14203	541
						1960	1	9630	4.9	474	1	11600	446	1	12622	500
438181	1	1	10000	4.9	494	1959	1	10000	4.9	494	1	9230	390	1	9505	402
439085	34	77	7844	5.0	386	1953	1	6830	5.2	354	1	8870	413	1	8273	400
						1954	12	7015	5.1	358	12	7693	386	11	8319	410
						1955	21	7597	5.1	378	19	9572	451	18	8811	424
						1956	11	6323	4.7	395	11	9169	431	1	9418	439
						1957	15	9219	4.7	436	11	9595	455	4	8843	423
						1958	10	9406	4.8	454	10	9768	468	9	9470	460
						1959	7	9673	4.9	463	9	9150	437	6	10008	488
440498	12	13	9091	4.7	420	1958	2	8630	4.7	403	2	11285	452	2	10955	476
						1959	11	9150	4.7	424	11	8086	430	11	9633	464
442503	5	7	9045	4.9	438	1958	2	9085	4.6	416	2	9355	446	2	8911	428
						1959	5	8866	4.9	432	5	9412	455	5	9217	441
443311	3	3	6087	4.6	280	1955	1	4660	4.4	205	1	6170	261	1	6660	298
						1958	2	6800	4.7	318	2	9905	390	2	9750	393
444052	4	5	9724	4.6	446	1958	1	9320	4.7	437	1	8990	376			
						1959	4	9520	4.7	438	4	9993	418	4	10453	441
444417	3	4	9717	4.8	469	1956	1	9950	5.6	559						
						1959	3	9837	4.4	435	3	10537	478	3	9421	428
444418	58	113	7993	4.6	362	1953	3	9110	4.4	394	3	7750	363	3	8535	403
						1954	20	7850	4.5	352	19	7867	369	17	8546	403
						1955	36	8006	4.5	358	33	8473	395	32	8245	392
						1956	27	8044	4.6	364	21	8699	387	5	9248	382
						1957	15	8035	4.6	366	11	8965	415	9	9349	427
						1958	8	8235	4.5	376	8	8724	420	6	8433	411
						1959	4	7223	4.9	353	4	7828	380	4	8772	429
						1960	2	11265	5.0	554	2	10600	507	2	10802	504
444713	2	2	7510	4.1	309	1953	1	8060	4.2	338	1	7650	330	1	8012	281
						1954	1	6960	4.0	280	1	3550	236	1	7499	324
446009	1	1	6730	4.6	312	1954	1	6730	4.6	312	1	5280	271	1	7794	362
446292	6	7	7984	5.4	428	1959	3	8040	5.5	444	3	8247	395	3	8186	402
						1960	4	8155	5.5	429	4	8605	376	4	8260	402
448564	3	3	7790	5.0	383	1955	1	8650	4.8	414	1	8330	403	1	8066	398
						1959	2	7360	5.1	368	2	8015	418	1	8851	444
449173	8	10	8384	5.3	443	1958	2	8380	5.0	414	2	7950	386	1	8382	414
						1959	8	8211	5.4	436	8	8705	410	7	9535	457

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	MILK LB.	FAT LB.
GUERNSEY																
449174	2	2	8175	5.2	422	1959	2	8175	5.2	422	2	8320	389	2	8011	400
449589	2	2	8465	4.9	417	1959	2	8465	4.9	417	2	9400	434	2	9663	444
451597	6	8	8776	4.5	396	1956	3	8877	4.1	367	3	8120	403	3	8327	409
						1959	4	8576	4.6	377	4	8845	400	4	9290	441
						1960	1	8640	4.6	399	1	8140	350	1	8698	376
451828	1	2	5820	5.3	309	1959	2	5826	5.3	309	1	7690	396	1	8208	442
452648	6	9	7841	4.5	354	1953	2	7840	5.1	378	2	9260	467	1	8121	369
						1954	3	8467	4.4	370	3	9340	377			
						1955	3	7397	4.1	303	3	9630	433	2	7597	360
						1956	1	8020	4.5	358	1	7630	366			
454223	7	13	7610	4.8	363	1954	1	6740	5.4	367	1	8030	394			
						1955	4	6935	4.5	310	3	7193	339	4	8779	390
						1956	3	9007	4.7	425	3	9433	435	1	9439	477
						1957	5	7556	4.9	364	4	9116	433	4	9143	446
454224	18	37	7831	4.8	379	1953	1	5720	4.1	232	1	6560	300	1	7665	357
						1954	4	5886	5.0	293	4	7703	380	3	3171	405
						1955	4	6755	4.7	327	3	8123	380	3	8331	391
						1956	4	7626	5.0	374	3	8317	403	1	8339	404
						1957	10	7876	4.8	377	6	7933	397	4	8069	398
						1958	6	7487	4.7	468	6	10740	465	3	8907	433
						1959	6	8372	4.8	401	6	8275	393	6	8615	476
						1960	2	7405	4.6	333	1	6600	327	2	7947	396
454483	9	11	7400	4.4	333	1954	3	6600	4.3	293	3	7620	366	2	8437	391
						1955	1	7756	4.2	327						
						1956	2	7646	4.2	322	1	7610	356			
						1958	3	8243	4.6	369	3	7937	396	3	8131	393
						1959	2	8270	4.7	376	2	8165	425	2	8661	445
455056	23	29	8287	4.9	404	1958	7	7494	5.2	385	5	8370	416	5	8502	426
						1959	14	8062	5.6	401	14	9769	452	8	16364	477
						1960	8	8208	4.8	391	8	8769	408	7	7818	456
457364	23	24	8136	4.7	380	1957	1	8850	4.7	417	1	6460	367	1	7641	364
						1958	4	9440	4.5	407	4	8310	381	4	10296	452
						1959	17	7884	4.2	378	17	8513	407	17	9146	447
						1960	2	7476	4.6	335	2	6935	466	2	8437	426
458485	13	20	8467	4.5	380	1958	7	9527	4.5	425	7	9459	422	4	9254	416
						1959	12	7825	4.5	354	12	3396	383	12	9192	416
						1960	1	9496	4.7	442	1	8260	397	1	9407	427
458610	3	3	8167	5.0	409	1959	2	7760	4.7	366	2	9000	440	2	8949	416
						1960	1	9046	5.5	496	1	9620	469	1	9952	496
458786	1	2	6225	4.6	286	1958	1	8040	4.6	371	1	8250	390			
						1959	1	4416	4.5	200	1	8640	365	1	8446	403
459489	57	117	6725	4.8	416	1954	5	8606	5.0	399	4	8543	396	3	8665	427
						1955	27	8151	5.0	401	24	8175	387	24	8081	377
						1956	22	8828	4.7	432	16	8566	396	3	9066	430
						1957	22	8599	4.8	413	18	9668	421	13	8492	463
						1958	20	9254	4.6	427	16	8837	417	14	8969	431
						1959	17	9679	4.7	451	17	8651	414	14	9525	451
						1960	4	8965	4.7	423	4	8030	397	4	8336	468
461752	4	7	6720	5.2	347	1954	2	6120	5.2	317	2	6905	416	2	8284	396
						1955	2	6785	5.0	340	2	8390	406	2	9113	442
						1957	1	8916	5.3	476	1	8240	394	1	7608	360
						1958	1	8626	5.1	440	1	8710	426	1	8677	354
						1959	1	8830	5.5	468	1	9160	440	1	9527	453
464097	5	6	7897	4.6	365	1954	3	7737	4.6	351	2	10620	426	1	9341	438
						1955	2	8300	4.6	378	2	8716	401	2	7881	379
						1960	1	7550	4.8	364	1	3640	413			
464796	2	2	6935	4.2	288	1954	1	7270	3.9	285	1	5910	264	1	7590	354
					1955	1	6600	4.4	290	1	6660	310	1	7379	346	
466643	2	2	8115	4.8	389	1959	2	8115	4.8	369	2	7630	392	2	9505	402
467102	6	13	7186	4.9	351	1955	4	7993	4.9	391	4	7730	372	4	7532	371
						1956	1	6376	4.9	312	1	7670	381			
						1957	3	8223	4.7	367	2	9300	465	2	7576	379
						1958	2	5630	4.8	273	2	8370	393	2	8905	419
						1959	3	6517	4.8	310	3	8667	423	3	9294	478
467223	4	6	9215	5.0	458	1958	3	9483	4.9	463	3	9583	473	2	10224	549
						1959	3	9100	5.6	458	3	9673	459	3	10077	483
468506	4	6	7273	4.9	358	1954	1	9586	4.6	446	1	7730	405	1	9145	468
						1955	2	8745	5.2	467	2	8355	426	1	8687	445
						1956	1	9646	5.2	516	1	8966	462	1	9592	504
						1957	1	5850	4.5	265						

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUP 0 BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
							GOERNSLY									
						1959	1	5430	4.2	259	1	7810	406	1	8203	448
470947	5	10	8423	4.7	389	1955	4	8430	4.5	377	2	8540	392	1	9014	451
						1956	2	9800	4.5	435	2	9865	445			
						1958	2	8925	5.0	445	2	9850	490	1	11031	547
						1959	2	9375	5.0	464	2	10005	486	2	10088	509
470949	1	2	9565	4.8	458	1954	1	8560	4.9	423	1	8490	435	1	9014	468
						1955	1	10570	4.6	492	1	9120	462	1	8295	435
472164	5	5	10150	5.0	509	1959	4	9378	5.1	472	4	9060	419	2	10099	471
						1960	1	13240	4.9	654	1	11730	486	1	11064	469
472739	4	4	7425	5.2	387	1959	4	7425	5.2	387	3	8637	423	3	8258	408
473831	9	9	7227	5.0	357	1959	2	5945	5.0	293	2	8215	397	2	10301	486
						1960	7	7593	5.0	374	7	9410	449	7	9329	432
473934	1	1	7750	5.0	387	1959	1	7750	5.0	387	1	9300	433	1	9974	472
474044	12	16	7492	5.0	377	1958	8	7635	5.1	386	8	9799	408	5	8332	389
						1959	5	7428	5.1	387	5	8340	394	5	9104	476
						1960	3	8563	4.9	415	3	8813	425	3	9334	450
476011	2	6	7494	4.7	353	1955	2	8260	5.3	438	2	8345	414	2	7597	360
						1956	1	8260	4.5	369	1	7950	375			
						1958	2	6770	4.3	294	1	7680	397	1	7783	350
						1959	1	6640	4.3	286	1	8990	446	1	8962	423
476012	7	7	8039	4.3	349	1955	3	6707	4.1	274	3	10257	403	1	8164	378
						1956	1	8730	4.3	376	1	9850	395			
						1958	2	8025	4.4	349	2	8930	404	1	9145	445
						1959	1	11370	4.8	548	1	7940	397	1	8666	422
476013	6	6	8067	4.7	381	1954	2	8410	5.0	425	2	7910	384	1	8633	383
						1955	1	5150	4.7	240	1	8460	366	1	8164	378
						1956	1	8850	4.8	427	1	9940	446	1	8764	419
						1957	1	8780	4.4	386	1	9290	422			
						1958	1	8800	4.4	383	1	9290	422	1	9145	445
476014	2	3	8398	4.2	338	1955	1	6470	5.1	328	1	8430	433	1	7597	360
						1956	1	4700	4.4	206	1	8390	396			
						1958	1	11210	3.6	408						
476015	5	8	7595	4.6	353	1955	5	8028	4.7	377	3	9912	421	3	7975	379
						1956	1	5210	4.6	236	1	12230	464			
						1957	1	7950	4.6	369	1	11620	424			
						1958	1	7990	4.6	365	1	8020	384			
476906	1	1	8190	5.1	421	1954	1	8190	5.1	421	1	8200	379	1	8110	379
478142	1	1	8530	4.4	372	1958	1	8530	4.4	372	1	14030	488	1	11183	415
481953	10	11	7629	4.9	378	1958	1	11010	4.7	522	1	9070	415			
						1959	7	7469	5.0	375	7	8063	364	7	8698	391
						1960	3	7553	5.0	378	3	8080	384	3	7761	368
482994	1	1	7420	4.7	351	1959	1	7420	4.7	351	1	8480	406	1	9919	458
483409	1	1	5510	4.7	257	1958	1	5510	4.7	257	1	11480	403	1	9603	409
485682	29	47	8098	4.7	381	1956	2	9855	4.7	462	1	8580	378	1	7717	359
						1957	7	7984	4.6	368	7	8761	369	7	7458	411
						1958	14	8701	4.7	407	14	8874	403	8	9347	430
						1959	19	7483	4.8	366	18	8241	375	18	9053	416
						1960	5	8050	4.7	419	5	8000	377	5	8515	411
489360	8	11	7642	4.8	364	1957	1	7560	4.0	301	1	9040	359	1	10181	415
						1958	2	7250	4.9	351	2	8785	405	2	8355	377
						1959	6	8008	4.9	392	6	9248	436	6	9719	451
						1960	2	8630	4.7	407	2	10905	469	1	10638	472
490792	2	2	6155	4.4	269	1960	2	6155	4.4	269	2	6200	256			
492015	2	2	8045	5.3	418	1958	1	7380	6.3	462	1	8810	434	1	9603	472
						1960	1	8710	4.3	373	1	8430	436	1	8840	428
495454	1	1	7370	5.2	386	1959	1	7370	5.2	386	1	8290	371			
496290	9	14	7698	4.8	369	1957	3	5770	4.8	275	3	6963	336	3	7103	352
						1958	2	7320	4.7	344	2	6640	315	1	7957	368
						1959	7	7844	4.8	377	7	7989	370	6	8302	388
						1960	2	8370	4.5	377	2	8600	400	2	8535	400
500170	22	32	8664	4.9	426	1956	2	9075	5.2	501	2	9325	454	2	9194	446
						1957	2	7605	5.3	402	2	11485	501	1	9123	446
						1958	11	8836	4.8	427	11	9586	427	11	9447	421
						1959	12	9155	4.9	452	12	8973	403	12	9414	434
						1960	5	8036	5.1	409	5	8218	402	4	8581	422
500172	35	43	8392	4.8	405	1957	3	7470	4.8	361	3	8277	388	3	8724	409
						1958	13	8225	5.1	420	13	10068	441	9	9045	419
						1959	25	8420	4.8	404	25	9124	427	25	9889	463
						1960	2	12270	4.1	501	1	9036	409	2	9085	423
500515	12	16	7970	4.7	375	1958	5	7968	4.6	366	5	8250	392	4	8170	395

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
JERSEY																						
500744	5	8	8178	4.8	389	1959	9	8246	4.7	389	9	8030	386	9	8914	431						
						1960	2	7220	4.9	357	2	7525	419	2	6927	440						
						1958	3	9820	4.8	471	3	8310	387	3	8891	423						
						1959	5	8074	4.7	382	5	7074	417	5	9570	441						
503928	15	18	7684	5.0	381	1958	3	9293	4.8	443	3	8653	402	3	9385	439						
						1959	13	7521	4.9	372	13	8388	378	13	9288	449						
						1960	2	6705	5.6	376	2	8020	382	2	7685	379						
							503985	11	11	7817	4.9	379	1957	3	7130	4.9	353	3	9220	418	3	8971
504967	1	1	10390	4.6	480	1958	4	7850	4.9	386	4	9425	430	4	8982	412						
						1959	4	8300	4.7	392	4	7560	446	4	9701	445						
						518316	7	10	7753	5.0	384	1959	7	7969	5.0	398	7	8430	402	7	9147	452
												1960	3	6560	5.0	328	3	8533	418	3	8382	415
518677	1	1	11160	4.8	537	1959	1	11160	4.8	537	1	9130	454									
522682	3	4	7082	4.7	330	1959	2	8545	4.4	380	2	9335	435	2	9156	434						
						1960	2	7450	5.1	372	2	5460	241	2	8001	377						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
588786	2	2	11165	3.4	374	1947	2	11165	3.4	374						
590765	5	18	11254	3.5	396	1947	10	11205	3.5	389						
						1948	4	12253	3.6	444						
						1949	3	11573	3.6	418						
						1950	1	11750	3.6	426						
617728	4	9	11410	3.5	391	1947	7	11669	3.5	410						
						1948	1	13470	3.6	484						
						1949	1	13590	3.7	500						
620987	16	47	12598	3.7	464	1947	31	12653	3.7	466	2	15085	494			
						1948	6	13176	3.5	463	2	12985	462			
						1949	1	13450	4.1	556	1	13260	497			
						1950	2	13360	3.9	519	1	13730	529			
						1951	3	12090	3.9	470	2	11110	412			
						1952	2	13515	3.9	522	2	12330	472			
						1953	1	11200	4.0	446	1	10570	410			
						1954	1	14400	3.8	553	1	12260	448	1	13680	529
653086	4	12	10985	3.5	384	1947	5	11560	3.6	414						
						1948	2	12265	3.6	425						
						1949	3	10107	3.4	343						
						1950	1	10570	3.1	323						
						1951	1	12440	2.9	363						
667791	1	1	11620	3.9	456	1951	1	11620	3.9	456						
669721	67	186	11383	3.3	371	1947	41	11689	3.2	372	6	11645	421			
						1948	19	11555	3.3	374	5	11230	389			
						1949	32	12088	3.3	395	12	12559	442			
						1950	29	11522	3.3	378	17	12181	433			
						1951	22	11710	3.3	383	16	11859	415			
						1952	12	11601	3.2	360	10	12667	452			
						1953	8	12681	3.4	435	8	12523	424	6	12315	429
						1954	10	11031	3.4	370	10	11553	401	8	12320	437
						1955	7	10587	3.4	355	7	11444	416	6	11759	427
						1956	4	11665	3.3	400	2	12410	465	1	12295	465
						1957	2	13875	3.5	489	1	13330	493	1	12938	465
669877	18	55	10662	3.5	371	1947	28	10759	3.5	378	3	12883	401			
						1948	8	12944	3.5	450	2	12710	423			
						1949	4	12200	3.5	415	2	14965	510			
						1950	6	11740	3.6	419	2	13400	461			
						1951	5	11900	3.4	408	3	11587	401			
						1952	3	12997	3.5	448	2	15045	457			
						1953	1	10030	3.2	319	1	7240	333			
671379	28	105	11188	3.6	406	1947	59	11181	3.7	412	13	12732	474			
						1948	10	12030	3.7	441	3	12567	453			
						1949	13	11883	3.7	437	4	12923	479			
						1950	6	13318	3.7	489	4	13120	476			
						1951	5	12522	3.5	441	4	11968	442			
						1952	3	13067	3.4	444	3	12070	438			
						1953	3	13750	3.4	483	3	11207	398	3	10893	384
						1954	4	10420	3.4	351	4	10190	357	4	11121	327
						1955	2	12335	3.3	413	2	12625	466	2	13211	483
673465	8	29	11152	3.5	385	1947	16	10946	3.6	386						
						1948	4	10805	3.3	353						
						1949	4	11585	3.4	394						
						1950	3	13207	3.3	441						
						1951	2	11110	3.6	372						
673525	1	1	11620	3.9	449	1947	1	11620	3.9	449						
674592	3	8	10064	4.0	403	1947	3	9913	4.1	415						
						1948	1	10060	4.6	464						
						1950	1	10630	4.8	510						
						1951	1	8520	3.7	314	1	11460	372			
						1952	1	10260	3.5	356	1	11160	379			
						1953	1	9130	3.6	325	1	11230	386	1	11445	392
676723	46	150	11956	3.7	439	1947	53	11589	3.7	429	10	12763	464			
						1948	20	12177	3.7	454	6	13370	463			
						1949	22	12657	3.8	480	8	13569	491			
						1950	11	12887	3.8	487	7	13650	494			
						1951	9	11800	3.7	436	6	12962	478			
						1952	9	13917	3.7	512	9	12777	461			
						1953	9	13631	3.6	487	9	12963	465	7	12579	451
						1954	6	14540	3.5	513	6	12623	477	5	13093	500
						1955	5	14976	3.6	555	3	13880	526	4	13102	502
						1956	1	15650	4.0	622	1	14950	587			
						1957	2	15105	3.9	591	2	13665	518	2	14061	527
						1958	2	14315	3.7	520	2	14615	553	2	13963	526
						1959	1	15600	4.4	691	1	11530	480	1	13647	574
679187	45	120	11065	3.3	363	1947	47	11036	3.3	358	5	12070	399			
						1948	18	12342	3.4	411	3	12968	432			
						1949	17	12440	3.3	414	6	12625	447			
						1950	14	12165	3.4	412	6	12736	471			
						1951	11	11465	3.3	375	8	12216	425			
						1952	8	11297	3.4	386	6	12788	405			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	HERO MILK LB.	AV. FAT LB.	
						HOLSTEIN											
682048	68	210	11398	3.5	393	1953	4	11218	3.1	347	4	10583	370	4	11017	389	
						1954	1	6950	3.3	231	1	9290	358	1	11718	432	
						1947	43	11604	3.5	403	4	13050	456				
						1948	29	11292	3.4	385	3	11803	417				
						1949	23	10763	3.4	366	5	10678	383				
						1950	21	11966	3.5	420	8	11749	414				
						1951	24	11985	3.5	411	13	11015	394				
						1952	20	10868	3.5	381	18	10479	372				
						1953	20	11270	3.5	392	18	11088	397	15	11376	405	
						1954	14	12126	3.6	429	12	11397	407	12	11261	398	
						1955	6	13613	3.4	463	4	11298	384	4	11737	409	
						1956	4	13258	3.5	468	2	13620	475	1	13091	461	
						1957	3	14607	3.4	494	3	12583	445	3	12506	450	
						1958	2	13170	3.5	430	2	11165	412	1	10856	392	
						1959	1	13550	3.1	416	1	10210	380	1	11521	414	
688703	7	10	11484	3.6	406	1947	5	11496	3.6	415							
						1948	2	13165	3.5	432							
						1950	2	12600	3.7	479							
						1952	1	12300	4.3	523							
693386	27	97	11877	3.6	424	1947	64	12356	3.6	444	3	12927	428				
						1948	3	13003	3.6	476	2	11695	411				
						1949	7	12424	3.6	449	3	11727	422				
						1950	5	11668	3.4	388	3	11727	418				
						1951	4	11545	3.6	431	2	12655	462				
						1952	3	12877	4.1	525	2	11965	452				
						1953	2	13595	3.9	531							
						1954	2	14080	3.6	504	1	13230	470	1	11031	398	
						1955	1	11090	3.4	375							
						1956	1	6550	3.2	210							
						698104	2	3	13095	3.6	465	1947	5	13143	3.5	456	
699161	1	5	10926	3.5	386	1950	1	12420	4.6	495	1	13630	508				
						1951	1	12060	3.8	460	1	11110	403				
						1952	1	10496	3.1	329	1	11930	454				
						1953	1	11360	3.1	352	1	12750	476				
						1954	1	8300	3.5	294	1	13540	476	1	12971	481	
703880	8	23	10429	3.6	374	1947	7	10721	3.7	395							
						1948	4	10800	3.5	375							
						1949	5	10682	3.5	375							
						1950	3	11003	3.3	369							
						1951	2	9595	3.2	302	1	9160	334				
						1952	1	11050	3.6	397	1	10240	387				
						1953	1	10680	3.5	375	1	10270	366	1	10301	384	
707706	6	15	11385	3.3	370	1947	5	11432	3.0	345							
						1948	3	10277	3.2	351	1	10300	335				
						1949	2	11415	3.5	381	2	12445	414				
						1952	1	10950	3.1	345	1	11240	366				
						1953	1	14000	3.1	434	1	10900	366				
						1954	1	11550	3.2	370	1	10540	360	1	11042	371	
						1955	1	8830	3.5	288	1	11720	389	1	11336	362	
						1959	1	13730	3.6	491	1	13190	479				
707767	3	3	9013	3.8	336	1947	3	9013	3.8	336							
708301	1	3	10013	3.2	324	1951	1	8050	3.0	240	1	11660	386				
						1952	1	12720	3.4	426	1	12520	421				
						1953	1	9270	3.3	306	1	9560	315	1	10308	347	
708526	38	111	11339	3.4	380	1947	26	11139	3.4	376	2	12675	429				
						1948	19	11312	3.4	381	4	12855	450				
						1949	16	12229	3.5	406	5	12164	419				
						1950	14	12971	3.3	425	6	11425	402				
						1951	9	10932	3.3	360	4	11078	383				
						1952	10	12592	3.3	417	7	11657	396				
						1953	6	12268	3.2	391	6	11670	410	4	11334	395	
						1954	5	12914	3.1	407	5	11534	408	4	10739	370	
						1956	2	11850	3.0	352	2	12200	409				
						1957	1	12940	3.0	389	1	12820	449	1	12077	425	
						1958	1	16760	2.8	477	1	13410	471				
709501	20	61	10835	3.4	369	1947	11	11983	3.4	407	1	12780	457				
						1948	10	11934	3.3	390	1	13410	471				
						1949	14	11485	3.4	385	1	13950	482				
						1950	13	11485	3.4	390	3	11027	410				
						1951	6	11332	3.5	392	5	11710	421				
						1952	3	11807	3.4	392	5	11543	408				
						1953	1	5950	3.3	195	1	10610	353	1	9766	326	
						1954	2	12175	3.6	456	2	11655	424	2	12001	445	
						1955	1	12650	3.5	446	1	12240	459	1	11652	413	
711087	12	27	12843	3.3	420	1947	10	13522	3.5	453	1	13670	515				
						1948	7	11349	3.2	365	1	13100	505				
						1949	2	9525	3.1	300	1	15760	608				
						1950	1	14360	3.2	467	1	14340	585				
						1951	1	14610	3.3	476	1	13220	495				
						1952	2	15250	3.2	488	2	13510	495				

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1953	1	16020	3.1	495	1	14910	546	1	14063	518
						1954	2	15425	3.1	466	2	14735	529	1	13396	458
						1956	1	17520	3.1	538	1	14150	554	1	14257	541
711654	1	4	12568	3.7	460	1947	3	11860	3.7	454						
						1948	1	14690	3.7	540						
714571	18	56	11402	3.5	371	1947	30	11151	3.2	361	1	12060	357			
						1948	10	12057	3.2	385	1	10740	399			
						1949	7	11484	3.2	367	1	12080	390			
						1950	5	9682	3.2	309	1	10200	336			
						1951	3	11893	2.7	326	1	11550	373			
						1952	1	9560	2.6	265	1	11550	414			
715471	4	15	10555	3.8	402	1947	6	11808	3.8	449						
						1948	1	14560	3.6	539						
						1949	2	11045	3.9	453	1	9970	386			
						1950	3	8337	3.7	311						
						1952	2	9380	4.0	373	2	11250	435			
						1953	1	12390	3.7	455	1	11000	427	1	11663	461
715532	1	1	14700	3.2	463	1947	1	14700	3.2	463						
717420	49	134	10132	3.5	351	1947	53	10249	3.5	353						
						1948	22	10737	3.5	375	3	13457	491			
						1949	22	10646	3.6	380	4	12205	417			
						1950	13	10481	3.5	364	7	12451	430			
						1951	9	10102	3.6	358	5	10906	384			
						1952	5	10776	3.6	390	5	11766	404			
						1953	6	10336	3.5	361	6	11447	399	4	11685	411
						1954	3	8840	3.4	304	3	10050	360	2	11353	417
						1955	1	7600	3.6	267	1	9760	360			
717785	35	94	11982	3.4	404	1947	16	11553	3.3	371						
						1948	13	13210	3.3	438						
						1949	16	12736	3.4	436	5	13510	475			
						1950	14	12635	3.5	413	7	12341	442			
						1951	9	12796	3.4	433	7	12341	411			
						1952	11	11271	3.5	390	11	11864	415			
						1953	7	12763	3.5	436	7	11596	394			
						1954	5	10076	3.6	367	5	10953	395	2	10594	356
						1955	1	11310	3.9	442	1	10860	412	5	11100	398
														1	11064	425
718344	169	551	12026	3.4	409	1947	44	11815	3.3	388	4	12945	441			
						1948	56	12702	3.4	436	19	13643	441			
						1949	70	12632	3.4	434	20	12744	442			
						1950	75	12525	3.4	432	43	12446	440			
						1951	76	11737	3.4	402	50	11950	424			
						1952	62	12457	3.4	426	57	11689	413			
						1953	53	12519	3.4	426	52	11705	415	34	11626	420
						1954	39	11801	3.4	404	36	11002	393	35	11395	403
						1955	26	12034	3.5	417	23	11554	409	20	11650	414
						1956	21	11995	3.4	412	16	11557	426	5	12527	453
						1957	17	12928	3.3	423	14	11953	433	13	11754	433
						1958	7	14696	3.3	486	7	13294	461	6	13060	480
						1959	5	14912	3.2	485	5	13476	472	5	13926	486
718551	30	80	10868	3.7	398	1948	2	10925	3.5	384						
						1949	17	10813	3.7	399	4	10665	405			
						1950	21	10810	3.6	335	9	11239	415			
						1951	12	11127	3.7	413	6	11662	455			
						1952	10	11691	3.6	426	9	11998	435			
						1953	8	12545	3.6	453	8	11556	413	8	11644	424
						1954	5	12286	3.5	435	5	11202	416	5	12108	459
						1955	2	11865	3.7	459	2	11745	434	2	11773	440
						1957	2	10925	3.9	417	2	10770	404	2	9952	366
						1958	1	10390	3.8	394	1	11590	445	1	10737	407
720340	2	4	10265	3.6	364	1947	4	10265	3.6	363						
722342	3	5	10603	3.4	354	1947	3	9780	3.6	341						
						1949	1	12830	3.6	456						
						1955	1	9500	3.3	310				1	10475	367
722827	3	9	12080	3.6	430	1947	2	12785	3.6	454						
						1948	1	12690	3.6	455						
						1949	3	11157	3.6	400						
						1950	2	14120	3.5	491						
						1951	1	11790	3.6	423						
723903	23	63	11002	3.7	400	1949	9	12128	3.7	446	6	14673	510			
						1950	19	11515	3.7	421	9	13201	484			
						1951	13	11512	3.7	420	10	12753	473			
						1952	9	11457	3.5	396	9	12453	449			
						1953	6	12260	3.5	431	6	12572	441	6	12989	463
						1954	3	12657	3.5	455	2	14290	546	3	13654	481
						1955	3	12140	3.5	436	3	12827	465	3	13425	482
						1956	1	13720	3.9	552	1	16650	638	1	14028	557
725059	3	12	12274	3.2	386	1947	7	10903	3.1	359						
						1948	1	12870	2.7	342						
						1949	2	13745	2.7	376						
						1950	1	15530	2.9	445						

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY RECORD AVERAGE BY SIRE BY FRESHENING YEAR						
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.		
						HOLSTEIN												
						1951	1	17310	2.8	491								
725440	4	15	12981	3.4	435	1947	1	12240	3.6	443								
						1948	1	13550	3.7	499								
						1950	2	12700	3.4	430								
						1951	3	12653	3.2	409	5	12323	446					
						1952	1	14230	3.5	493	1	12240	439					
						1953	2	11845	3.2	383	2	13510	494					
						1954	2	14110	3.1	440	2	10250	371	2	11554	415		
						1955	2	13660	3.3	444	2	11060	404	2	12018	427		
						1957	1	15240	3.4	520	1	11460	433	1	12677	458		
725760	14	49	11081	3.4	373	1947	20	11156	3.5	383	5	11933	424					
						1948	9	11440	3.5	400	2	12110	430					
						1949	5	12274	3.4	415	1	11330	432					
						1950	2	11535	3.5	401	2	11420	413					
						1951	3	12433	3.7	459	2	11510	403					
						1952	3	10650	3.4	355	2	11305	399	1	12546	453		
						1953	2	12220	3.4	417	2	11260	396	2	11914	428		
						1954	2	11345	3.4	378	2	11615	417	2	11767	424		
						1955	2	11665	3.5	402	1	11540	409	1	10344	366		
						1956	1	12050	3.2	385								
725852	39	118	11775	3.7	431	1947	81	12383	3.7	455	4	13153	463					
						1948	18	13058	3.7	485	1	12400	468					
						1949	11	12192	3.7	455								
						1950	4	12918	3.6	466	1	10780	379					
						1951	2	12870	3.3	419	1	10720	384					
						1952	1	11820	3.6	422	1	11200	396					
						1954	1	10650	3.6	381	1	10390	370	1	10747	376		
726056	18	68	12460	4.0	493	1947	11	12725	3.7	466	2	16070	590					
						1948	8	13735	4.1	553	5	14026	559					
						1949	12	13191	4.3	561	6	16207	600					
						1950	9	13556	4.2	569	5	15596	597					
						1951	7	13433	4.1	551	7	13904	545					
						1952	7	12726	4.1	523	7	13467	525					
						1953	5	12022	4.2	508	5	13316	530					
						1954	4	11303	4.3	495	4	13043	515					
						1955	3	12300	4.2	521	5	12700	495					
						1956	1	11210	4.3	483	1	13020	515					
						1959	1	12140	4.2	515	1	12170	485					
727723	1	1	9450	3.6	342	1947	1	9450	3.6	342								
729030	40	140	11318	3.6	406	1947	44	10485	3.6	375	1	11930	406					
						1948	25	11256	3.6	409	4	11383	396					
						1949	19	11237	3.6	406	5	11262	396					
						1950	15	11294	3.6	399	7	10669	397					
						1951	11	10155	3.5	352	4	9590	349					
						1952	9	11791	3.6	418	8	11330	409					
						1953	4	15285	3.7	554	4	13298	457	3	13134	454		
						1954	4	12360	3.8	466	4	11888	432	4	11726	415		
						1955	5	14082	3.9	536	4	10803	394	5	11968	429		
						1956	2	15035	3.3	492	2	12965	507	1	13222	471		
						1957	1	19480	3.5	676	1	14560	476	1	12513	443		
						1959	1	18170	3.4	626	1	13240	441	1	14366	500		
729166	21	51	10720	3.3	348	1947	38	10982	3.3	362								
						1948	5	12722	3.2	411								
						1949	3	12030	3.3	400								
						1950	1	12300	4.2	511								
						1951	2	12390	3.2	392								
						1952	2	11795	3.0	345								
729720	17	57	11955	3.6	423	1949	2	13655	3.5	477	2	12695	449					
						1950	13	12986	3.6	459	10	12544	450					
						1951	12	11681	3.6	413	9	11977	439					
						1952	11	12496	3.6	451	11	11550	416					
						1953	7	13101	3.5	460	7	11391	412	7	12164	433		
						1954	5	12462	3.6	453	5	11564	417	5	11319	409		
						1955	2	13370	3.5	465	2	10450	380	2	10759	394		
						1956	2	12250	3.5	425	2	11870	418					
						1957	1	13620	3.5	476	1	12700	453	1	13320	462		
						1958	1	9790	3.0	351	1	12680	507	1	10976	410		
						1960	1	12610	3.4	425	1	12610	500	1	14857	565		
733131	34	93	11402	3.4	391	1948	5	10950	3.5	383	1	12300	448					
						1949	11	12996	3.4	436	4	11763	423					
						1950	10	10756	3.4	372	7	10779	393					
						1951	16	11758	3.5	411	12	11104	416					
						1952	13	11116	3.4	382	12	10308	381					
						1953	13	11938	3.4	402	13	11442	400	11	11063	394		
						1954	11	12145	3.3	404	11	10715	399	9	11400	422		
						1955	6	12007	3.5	421	6	11532	451	6	12295	451		
						1956	3	12190	3.7	439	2	14040	494	2	12600	468		
						1957	3	14167	3.3	465	3	12540	473	2	11805	458		
						1958	2	13670	3.4	456	2	12340	451	1	13385	489		
733213	36	100	10405	3.6	371	1947	11	10509	3.5	371	1	11560	457					
						1948	13	10935	3.4	366								
						1949	22	10262	3.5	360	5	10694	429					
						1950	17	10609	3.5	376	4	11765	415					
						1951	8	10645	3.5	368	5	10722	378					
						1952	7	9731	3.7	346	5	10156	377					

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1953	10	10335	3.7	376	10	11494	427		3	10191	371
						1954	8	9897	3.6	358	8	11154	414		8	12399	451
						1955	2	11210	3.5	370	2	11600	443		1	11794	445
						1957	1	12870	3.5	448	1	13540	515				
						1958	1	10920	3.4	376	1	13790	516				
733862	3	6	11612	3.6	420	1952	2	13305	3.7	482	2	13015	487				
						1953	2	14060	3.9	548	2	13065	494		1	12121	453
						1954	2	10555	3.6	387	2	10570	390		1	9145	326
735351	1	1	9850	3.6	350	1953	1	9850	3.6	350							
737915	1	1	12040	3.5	416	1950	1	12040	3.5	416							
739007	36	98	11534	3.5	396	1946	6	11968	3.5	398							
						1949	16	11614	3.5	407	6	11278	421				
						1950	19	11680	3.5	404	7	12697	454				
						1951	17	12026	3.5	427	11	12279	441				
						1952	12	10975	3.5	385	9	12430	438				
						1953	10	12694	3.4	430	9	13266	478		7	12247	440
						1954	6	11950	3.5	423	6	12702	468		5	11800	428
						1955	6	11342	3.5	396	5	12606	458		5	12409	455
						1956	1	15000	3.2	477	1	13520	464				
						1957	4	12820	3.6	460	5	11860	414		4	11745	421
						1958	1	12660	3.4	428	1	11610	443		1	10757	407
739097	1	1	10510	3.6	381	1955	1	10510	3.6	381	1	10010	321		1	9984	337
739797	11	33	10056	3.7	371	1947	12	10251	3.7	383	2	12640	451				
						1948	4	11613	3.6	412	2	11915	419				
						1949	5	11032	3.5	392	3	13150	455				
						1950	3	14143	3.6	410	2	11785	423				
						1951	1	8810	4.2	375	1	11410	386				
						1952	3	10490	3.8	391	3	10897	389				
						1953	3	11080	3.5	386	5	11757	406		2	11020	387
						1954	2	11630	3.3	388	2	13280	475		2	12143	426
739916	1	2	16675	4.0	661	1952	1	15160	3.9	597	1	13420	485				
						1953	1	18190	4.0	724	1	14620	541		1	15533	576
743063	1	1	9570	3.0	360	1951	1	9570	3.0	360	1	11020	367				
743481	9	20	12375	3.4	417	1947	9	12564	3.5	438							
						1948	2	13995	3.3	455							
						1949	3	15447	3.6	550							
						1950	2	10070	3.6	362							
						1951	2	13275	3.3	451							
						1952	2	13105	3.6	464	1	14260	485				
743685	1	1	15850	3.4	539	1947	1	15850	3.4	539							
745535	6	15	11496	3.5	398	1947	6	11927	3.5	423							
						1948	2	11410	3.8	429							
						1949	2	12040	3.6	427							
						1950	2	9360	3.5	311							
						1951	2	9910	3.3	327	1	9830	368				
						1952	1	12040	3.5	394	1	9540	355				
746399	1	2	11615	3.4	393	1947	1	12360	3.4	421							
						1948	1	10870	3.3	364							
748285	13	44	10412	3.5	365	1947	4	7893	3.7	280	2	11520	417				
						1948	7	9556	3.6	355	1	9200	321				
						1949	10	10888	3.6	385	4	11455	402				
						1950	5	9944	3.4	337	1	12400	419				
						1951	6	11578	3.6	406	4	10473	384				
						1952	5	11742	3.4	396	5	11008	387				
						1953	3	12053	3.4	394	3	10460	371		2	8889	319
						1954	2	10365	3.2	333	2	11640	416		2	11096	316
						1955	1	14100	3.7	520	1	11870	450		1	13472	472
						1956	1	11620	3.6	416	1	10590	416		1	13244	494
748385	141	453	11885	3.5	419	1947	51	11986	3.5	412	5	12277	415				
						1948	28	12176	3.5	420	9	12953	454				
						1949	43	12665	3.5	441	17	13458	481				
						1950	42	12329	3.5	434	24	12625	458				
						1951	45	12465	3.5	432	37	12450	444				
						1952	44	12336	3.5	433	41	12040	426				
						1953	55	12125	3.5	423	52	11625	417		58	12144	424
						1954	46	12580	3.6	440	46	11330	429		34	12578	444
						1955	29	11581	3.6	412	29	12013	437		26	11932	435
						1956	23	12564	3.6	445	22	12124	442		4	11606	418
						1957	26	11462	3.5	407	23	12216	445		23	11765	429
						1958	15	13135	3.6	472	15	12547	460		12	12582	465
						1959	8	12275	3.6	457	8	12514	459		6	13235	486
748596	43	114	11584	3.7	428	1948	16	11256	3.7	409	3	14917	506				
						1949	27	11321	3.6	424	9	12947	467				
						1950	22	11869	3.6	450	6	12750	458				
						1951	18	12401	3.7	456	8	12409	435				
						1952	11	12547	3.7	464	5	12530	454				
						1953	7	12959	3.6	493	7	12544	457		7	11762	452
						1954	6	11515	3.7	416	4	12450	462		4	12224	451
						1955	3	10717	3.6	409	2	10390	390		2	10651	404
						1957	2	10320	4.2	434	1	12556	451		1	12731	467



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
748994	138	396	11396	3.6	415	1947	1	14510	3.5	511	1	11260	457			
						1948	11	11405	3.6	410	2	11665	440			
						1949	52	12126	3.6	437	25	12056	440			
						1950	79	11648	3.6	425	58	12141	440			
						1951	72	11575	3.7	427	53	11579	424			
						1952	61	11756	3.7	435	56	11684	429			
						1953	48	11576	3.7	429	47	11627	427	41	11338	417
						1954	55	11520	3.7	429	32	11556	420	25	11656	432
						1955	21	10898	3.6	391	21	11016	402	21	11011	406
						1956	8	11996	3.6	429	8	12223	452	3	12640	480
						1957	7	11944	3.6	432	7	11640	443	6	12061	452
						1958	5	11217	3.6	406	5	12403	468	3	12164	445
749064	47	145	11077	3.4	379	1947	9	9937	3.5	343	2	12145	381			
						1948	16	12001	3.4	408	5	13156	473			
						1949	23	11013	3.4	376	6	12410	413			
						1950	22	11235	3.4	387	14	12716	439			
						1951	25	11520	3.4	386	15	12105	426			
						1952	16	10924	3.4	368	16	12046	418			
						1953	10	12372	3.5	437	9	11932	421	7	11595	400
						1954	12	10789	3.6	378	11	12465	450	10	12205	426
						1955	3	10850	3.4	365	3	12747	424	2	13108	430
						1956	4	11853	3.4	405	4	13168	474	1	13222	471
						1957	3	11553	3.5	410	3	13130	469	3	11714	421
						1958	5	12687	3.2	408	3	13360	474	3	13371	469
						1959	1	11210	3.7	414	1	11840	412	1	14344	512
749572	37	128	12241	3.6	437	1947	4	10825	3.5	374						
						1948	9	10848	3.6	388	4	10533	357			
						1949	9	11553	3.6	410	5	12346	402			
						1950	16	12294	3.7	449	10	11677	420			
						1951	19	12179	3.6	455	17	11576	456			
						1952	22	12009	3.7	437	22	11164	402			
						1953	21	12501	3.5	434	21	11265	408	18	11000	398
						1954	10	12734	3.5	447	10	11648	425	10	11979	426
						1955	6	14682	3.4	302	5	11840	426	6	12615	459
						1956	3	16007	3.5	562	2	13665	530	2	12857	478
						1957	3	15613	3.4	530	4	15560	563	2	15135	484
						1958	4	14815	3.5	509	4	15355	480	3	11884	459
						1959	2	12960	3.4	438	2	11825	465	2	12737	464
749872	76	244	10488	3.5	369	1947	109	10533	3.6	376	17	11815	406			
						1948	31	11282	3.5	399	9	12697	445			
						1949	27	11037	3.5	389	9	12742	450			
						1950	21	11621	3.5	403	11	12694	443			
						1951	19	11231	3.4	386	12	11996	414			
						1952	12	12687	3.4	431	10	12261	428			
						1953	12	11440	3.4	391	12	12234	424	10	11569	405
						1954	9	11350	3.5	392	9	11999	426	9	12271	431
						1955	3	11453	3.6	417	3	11507	429	3	16995	394
						1956	2	10590	3.7	395	2	12895	480			
750270	26	60	11695	3.6	423	1951	1	13980	3.6	534	1	15030	523			
						1952	3	11123	4.0	436	3	12647	440			
						1953	12	13447	3.6	489	11	11948	436	7	11604	417
						1954	15	10772	3.7	401	14	11796	445	13	11348	434
						1955	10	10726	3.4	368	9	11766	456	9	10772	406
						1956	7	12377	3.5	430	3	12150	456	3	12768	480
						1957	6	11903	4.1	471	5	12568	480	5	11883	462
750349	1	1	11730	3.4	398	1958	5	12767	3.9	485	3	12180	464	2	11958	459
						1959	5	12547	3.9	481	3	12423	456	3	11590	426
751310	12	33	10362	3.7	383	1947	20	10224	3.6	370						
						1948	1	11270	3.6	400	1	11940	414			
						1949	5	12340	3.7	454	1	10950	368			
						1950	2	12300	3.5	431	1	13260	444			
						1951	1	12110	3.4	414						
						1952	1	12160	3.4	419	1	12770	428			
						1953	1	12490	3.3	413	1	9490	325			
						1954	1	13850	3.8	523	1	12710	423	1	11358	386
						1955	1	9180	3.7	337	1	11600	366	1	12045	404
						1956	1	12070	3.5	422	1	11200	410			
						1958	1	11060	3.8	415	1	14660	551	1	13145	440
752084	1	2	8195	3.8	314	1947	1	7690	3.7	285						
						1949	1	8700	3.9	342						
752310	2	12	11208	3.3	370	1947	3	10263	3.4	349						
						1948	3	10590	3.3	345	2	12275	411			
						1949	2	13810	3.4	465	1	11920	438			
						1950	2	11330	3.3	366	2	8940	315			
						1952	2	10775	3.3	350	2	9325	324			
752584	6	8	13719	3.5	475	1951	1	14470	3.6	520	1	15030	524			
						1952	2	13935	3.4	465	2	12695	442			
						1953	1	15150	3.6	542	1	14030	478	1	13865	483
						1955	1	12370	3.3	403	1	10360	360			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.						
HOLSTEIN																						
752797	24	55	10394	3.6	368	1956	2	15110	3.6	538	1	16020	566	1	16078	579						
						1959	1	13300	3.7	468	1	12210	458									
						1947	19	10952	3.5	383												
						1948	11	10195	3.5	357												
						1949	9	10914	3.6	387	4	12003	415									
						1950	5	12574	3.6	447	2	12550	459									
						1951	3	12527	3.6	450	2	13090	426									
						1952	2	11120	3.7	408	2	13485	468									
						1953	1	13800	3.5	481	1	11950	446									
						1954	2	13300	3.4	460	1	10990	417	1	11979	458						
						1955	2	12085	3.3	401	1	12620	436									
						1956	1	10660	3.6	383												
756406	1	3	12167	3.2	396	1947	1	11610	3.3	391												
						1950	1	13400	3.5	447												
						1951	1	11490	3.1	361												
756640	152	381	11532	3.4	395	1947	64	12121	3.3	400	1	12490	590									
						1948	34	11704	3.4	390	3	12247	421									
						1949	36	11927	3.3	398	3	14250	502									
						1950	55	12086	3.4	408	8	12609	442									
						1951	46	11380	3.4	388	24	11318	395									
						1952	49	11559	3.5	406	44	11353	406									
						1953	42	11648	3.5	402	38	11374	405	28	10970	394						
						1954	27	11037	3.5	383	24	10942	399	23	11001	400						
						1955	21	11389	3.4	393	20	11467	409	18	11335	404						
						1956	9	11027	3.3	368	8	10525	387	2	10851	386						
						1957	9	10837	3.3	358	7	10771	388	5	11523	417						
						1958	6	13317	3.4	458	5	12068	408	2	11631	422						
						1959	4	12250	3.5	428	4	12410	437	4	12456	441						
						1960	1	13070	3.4	449	1	13260	445									
						757596	2	3	12863	3.6	465	1952	1	13600	3.7	508	1	12020	419			
												1954	2	11910	3.5	418	2	11370	397	2	10682	379
						758853	70	212	10614	3.6	383	1947	59	10453	3.7	382	10	11902	431			
												1948	44	10745	3.6	382	9	11858	411			
												1949	33	11854	3.6	428	9	12044	420			
1950	28	12052	3.7	441	12							12465	434									
1951	12	12571	3.7	463	8							11944	413									
1952	15	11839	3.6	424	15							12175	420									
1953	9	10261	3.6	370	9							12018	419	7	11976	416						
1954	6	11423	3.6	436	6							11950	429	5	11681	412						
1955	2	12650	3.8	482	2							13025	491	2	13718	511						
1956	1	10590	4.0	421										1	14257	541						
1957	1	13570	3.3	453	1							14610	555	1	15511	577						
1958	1	12710	3.7	470	1							15470	586	1	15315	584						
1959	1	9270	3.4	315	1							14190	518									
758969	1	1	8760	3.4	299							1947	1	8760	3.4	299						
759931	17	50	11018	3.6	396	1947	37	11788	3.7	434												
						1948	4	10698	3.6	393												
						1949	4	10173	3.8	389												
						1950	2	11120	3.7	409												
						1951	1	12920	3.7	485												
						1952	1	13200	3.9	520												
						1953	1	10880	3.7	400												
759954	22	58	10715	3.6	379	1947	27	10813	3.5	378	7	10729	416									
						1948	4	15608	3.5	593	2	11935	442									
						1949	5	15896	3.6	559	2	12655	453									
						1950	5	12388	3.4	420	2	13020	472									
						1951	4	12788	3.8	485	4	10535	382									
						1952	5	12404	3.5	438	5	11462	412									
						1953	5	12628	3.7	459	5	11624	421	5	11057	401						
						1954	2	15730	3.6	569	1	12110	436	2	11195	412						
						1956	1	16990	3.2	543	1	14120	567									
761505	7	16	10512	3.3	349	1947	10	11417	3.4	386												
						1948	2	12050	3.3	399												
						1949	3	12147	3.2	393												
						1950	1	10090	3.5	356												
761974	2	2	11390	3.9	434	1954	1	10600	4.1	435	1	11450	404									
						1958	1	12180	3.6	432	1	11550	394	1	13483	499						
765379	4	9	12629	3.5	441	1947	3	10907	3.7	403	1	13820	476									
						1948	2	12245	3.5	414	1	15520	491									
						1949	2	14690	3.5	508												
						1951	1	12530	3.6	449	1	12650	459									
						1953	1	12970	3.9	508	1	13780	499	1	11532	428						
767189	1	2	13235	3.4	440	1953	1	13230	3.3	435	1	10300	398	1	8818	347						
						1955	1	13240	3.4	444	1	10640	395	1	11096	419						
767776	6	13	9743	3.7	369	1947	5	10268	3.8	399												
						1948	2	12835	4.2	538												
						1949	3	8893	3.5	316												
						1951	1	14500	4.0	586												
						1953	1	10740	4.0	433	1	9890	355									
						1955	1	11470	3.9	442	1	10070	375	1	8088	367						

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR								
HOLSTEIN																								
769170	1	1	12860	3.4	444	1955	1	12860	3.4	444	1955	1	11150	437		1	13472	472						
769488	1	5	13126	3.9	510	1952	1	13380	3.6	478	1952	1	12080	432										
						1953	1	14720	4.2	622	1953	1	12450	444										
						1954	1	12160	4.3	519	1954	1	12950	454		1	12971	481						
						1955	1	13580	3.5	471	1955	1	13120	480		1	13309	483						
						1956	1	11790	3.9	458	1956	1	12700	471										
769578	56	145	11444	3.5	398	1950	16	11957	3.5	426	1950	11	11244	403										
						1951	17	11205	3.5	395	1951	10	10375	376										
						1952	25	10622	3.5	367	1952	20	10799	394										
						1953	24	12009	3.4	413	1953	22	11220	402		13	11256	393						
						1954	22	10484	3.4	360	1954	20	10843	387		19	11304	406						
						1955	12	12373	3.4	421	1955	9	13034	470		8	12804	467						
						1956	8	12235	3.5	430	1956	5	11508	416		1	12655	424						
						1957	8	12616	3.5	449	1957	7	12037	425		6	13376	470						
						1958	6	14092	3.4	484	1958	5	13208	456		5	12651	444						
						1959	4	12803	3.5	439	1959	4	12413	443		3	12982	459						
						1960	1	14556	3.4	493	1960					1	14635	528						
						770603	4	6	8434	3.3	277	1947	3	8967	3.3	296	1947							
1948	1	5860	3.5	206	1948																			
1949	1	7380	3.1	227	1949																			
1950	1	10000	3.3	327	1950																			
771491	158	361	11520	3.6	408	1948	7	12454	3.3	411	1948	3	11537	416										
						1949	58	11496	3.7	420	1949	15	13589	474										
						1950	54	11556	3.5	407	1950	21	12150	418										
						1951	63	11113	3.5	322	1951	43	11773	414										
						1952	64	11550	3.5	404	1952	59	12400	430										
						1953	47	12112	3.6	432	1953	47	12577	431		38	11796	409						
						1954	52	11863	3.5	421	1954	31	12236	434		30	11912	423						
						1955	15	11676	3.4	396	1955	15	12509	437		14	11831	418						
						1956	6	11798	3.5	407	1956	5	10646	363		1	16628	374						
						1957	8	13125	3.6	465	1957	8	13354	473		6	12168	434						
						1958	4	13955	3.4	467	1958	4	13028	471		2	12328	458						
						1959	1	15040	3.2	476	1959	1	14140	492		1	13494	496						
						771582	9	28	10934	4.1	445	1950	1	11340	4.6	521	1950							
												1951	6	9590	3.9	377	1951	3	10937	375				
1952	5	10506	4.0	426	1952							3	11707	413										
1953	5	11728	3.9	457	1953							3	12473	436		3	12775	444						
1954	5	11684	4.0	459	1954							3	11820	388		1	12132	426						
1955	4	12195	4.0	475	1955							3	13010	459		3	12346	432						
1956	1	9080	4.3	394	1956																			
1957	1	16380	4.4	720	1957																			
772579	52	143	10714	3.4	363	1949	13	10937	3.6	388	1949	4	12230	432										
						1950	26	11034	3.4	373	1950	13	11291	393										
						1951	32	11075	3.4	375	1951	21	10986	394										
						1952	27	11018	3.4	370	1952	23	11202	401										
						1953	18	10549	3.5	366	1953	18	11544	419		13	11452	402						
						1954	10	10171	3.5	355	1954	9	10200	367		6	10987	360						
						1955	7	9999	3.4	339	1955	6	10518	383		4	11361	397						
						1956	4	11415	3.5	390	1956	4	11283	405		1	9797	347						
						1957	1	14180	3.3	471	1957	1	11720	429		1	11521	428						
						1958	3	12210	3.7	450	1958	3	13073	489		2	12846	474						
						1959	2	14560	3.5	501	1959	2	14180	523		2	13740	514						
						774673	1	4	11955	3.7	442	1947	1	12640	3.9	498	1947							
1948	1	15880	3.5	557	1948																			
1949	1	11970	3.6	433	1949																			
1951	1	7330	3.8	281	1951																			
775264	155	402	12006	3.5	418	1947	25	12469	3.6	449	1947	10	11650	422										
						1948	27	13487	3.6	480	1948	10	14093	516										
						1949	23	12911	3.6	461	1949	10	12766	473										
						1950	20	13642	3.5	478	1950	11	13162	480										
						1951	24	12498	3.6	442	1951	20	12237	454										
						1952	32	12075	3.6	430	1952	29	12110	441										
						1953	49	12151	3.5	426	1953	48	12187	444		32	12171	440						
						1954	51	11215	3.5	389	1954	50	11668	422		39	11907	433						
						1955	47	11739	3.5	412	1955	47	11942	434		43	12208	440						
						1956	25	11738	3.5	409	1956	20	12282	442		7	11521	400						
						1957	54	12685	3.4	429	1957	30	12976	455		27	12279	445						
						1958	25	12984	3.4	442	1958	25	13012	469		22	12536	459						
						1959	16	11531	3.6	397	1959	15	12643	458		15	11331	434						
						1960	1	10750	3.8	404	1960	1	10510	408		1	12284	473						
776306	1	2	12985	3.3	426	1954	1	14010	3.1	436	1954	1	13360	464		1	13374	474						
						1955	1	11960	3.5	415	1955	1	12650	451		1	12884	470						
776500	3	9	9572	3.6	340	1947	6	10015	3.6	358	1947													
						1948	2	9925	3.7	361	1948													
						1949	1	8980	3.4	305	1949													
777728	40	107	11215	3.6	398	1947	19	11137	3.5	388	1947													
						1948	10	11076	3.6	396	1948	3	13467	452										
						1949	16	11864	3.5	418	1949	8	12093	430										
						1950	14	11936	3.7	433	1950	7	11839	416										
						1951	15	12684	3.4	437	1951	11	11765	406										
						1952	8	12121	3.4	416	1952	7	11349	391										
						1953	13	11034	3.6	391	1953	12	10258	359		12	10838	389						
						1954	7	10586	3.8	403	1954	6	10050	375		6	9792	354						
						1955	3	9507	3.7	345	1955	2	12535	456		3	10438	387						
						1956	2	10635	3.6	403	1956													

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
778235	185	499	11212	3.5	391	1947	152	11483	3.5	403	4	12088	396									
						1948	63	11325	3.5	395	8	12616	429									
						1949	70	11281	3.5	393	13	11615	421									
						1950	61	11529	3.5	404	23	11939	421									
						1951	50	11200	3.5	395	32	11212	406									
						1952	37	10866	3.5	376	34	11279	399									
						1953	25	11392	3.5	400	24	11849	420	10	11443	397						
						1954	16	11174	3.5	394	16	11694	418	13	11899	423						
						1955	8	11214	3.4	380	6	11405	412	7	11733	413						
						1956	8	11320	3.3	378	7	11209	409									
						1957	4	10300	3.6	366	4	11705	420	3	11747	430						
						1958	3	12107	3.2	389	3	15013	522	2	16198	574						
						1959	2	15045	3.5	524	2	12010	410	2	12519	450						
778470	39	98	10516	3.5	360	1947	3	11430	3.3	369												
						1948	12	10664	3.4	374	2	13755	504									
						1949	12	11288	3.4	376	4	11403	424									
						1950	11	10766	3.7	392	5	12150	422									
						1951	14	9815	3.4	325	10	10345	380									
						1952	15	11709	3.6	417	13	11907	413									
						1953	16	10621	3.5	373	14	11996	419	13	11366	393						
						1954	8	10826	3.3	362	8	12301	437	7	12448	451						
						1955	5	10586	3.5	377	4	11518	408	4	11707	410						
						1956	2	10275	3.3	333	2	11795	433	1	10780	382						
						778659	5	13	11610	3.7	421	1948	3	11383	3.6	406	1	8540	296			
												1949	4	10480	3.8	396	2	10375	387			
												1950	3	11513	3.7	425	2	11115	398			
1951	1	9320	3.6	333	1							10430	388									
1952	2	10090	3.8	381	2							10765	413									
779567	99	252	12801	3.7	472	1950	14	13187	3.6	473	7	11969	429									
						1951	54	12529	3.7	459	35	11221	407									
						1952	49	12361	3.7	463	43	10962	404									
						1953	52	13225	3.7	489	47	11678	427	41	11341	413						
						1954	31	13162	3.6	493	27	11791	440	24	11828	439						
						1955	20	13220	3.6	481	18	11537	424	17	11677	435						
						1956	19	13986	3.7	511	12	12264	459	5	11327	421						
						1957	8	14660	3.7	545	7	13871	520	7	12801	471						
						1958	2	16690	3.9	641	2	13150	466	2	13015	476						
						1959	2	12615	3.9	479	2	10670	415	1	14268	505						
						1960	1	20890	3.2	669	1	14260	542									
779629	43	81	11823	3.7	430	1951	4	11308	3.7	416	1	11340	380									
						1952	2	12950	3.5	455	1	9350	352									
						1953	15	12005	3.6	432	13	12141	435	9	12809	459						
						1954	19	11076	3.6	397	18	11357	416	15	10962	398						
						1955	12	12622	3.5	445	11	11558	415	11	12009	430						
						1956	6	13017	3.7	476	5	12250	427	1	13647	487						
						1957	7	13170	3.6	474	6	12662	464	4	13824	508						
						1958	9	12837	3.6	458	8	12886	467	5	13422	499						
						1959	6	13122	3.8	504	6	13452	493	3	13708	511						
						1960	1	10470	3.7	386	1	11450	414	1	12720	449						
780674	106	270	12365	3.5	431	1948	3	11157	3.9	438	2	12650	435									
						1949	20	12451	3.5	438	11	12352	433									
						1950	30	12564	3.5	441	20	11794	413									
						1951	37	12291	3.5	430	31	11445	411									
						1952	41	12446	3.5	439	39	11490	409									
						1953	37	12227	3.5	428	36	11479	412	24	11205	398						
						1954	29	11276	3.5	391	28	11193	396	20	11092	394						
						1955	25	12609	3.5	438	23	11552	415	22	10915	388						
						1956	15	12883	3.5	460	13	12385	441	4	12216	431						
						1957	11	12573	3.5	441	10	13189	474	9	12827	465						
						1958	15	14311	3.5	500	14	13101	463	8	13251	480						
						1959	6	13715	3.4	472	6	14195	502	4	12541	437						
						1960	1	22840	3.9	886	1	15570	541	1	16492	581						
781423	2	4	10583	3.6	385	1947	1	11110	4.1	458												
						1948	1	12900	3.3	432												
						1954	1	8530	3.4	294	1	9930	322	1	10137	348						
						1955	1	9790	3.6	353	1	9610	336	1	10726	370						
781424	119	326	11589	3.5	401	1947	25	11734	3.4	397	4	12143	420									
						1948	37	11521	3.5	402	6	12270	431									
						1949	48	11683	3.5	405	10	12137	447									
						1950	46	12134	3.5	422	18	12277	446									
						1951	35	12236	3.5	428	24	11740	413									
						1952	33	12214	3.4	414	30	11381	402									
						1953	32	11379	3.4	392	31	11685	406	15	10847	381						
						1954	23	11500	3.5	405	23	10990	400	15	11063	394						
						1955	15	11713	3.4	399	15	11189	399	9	11300	394						
						1956	11	12416	3.5	437	10	11923	430	1	11162	391						
						1957	11	12399	3.4	424	9	11117	401	8	11576	414						
782352	178	496	11068	3.6	400	1948	18	11791	3.5	414	5	13118	440									
						1949	64	11478	3.6	414	24	11020	418									
1950	109	11093	3.7	406	50	12109	435															
1951	90	11243	3.6	411	58	11604	415															
1952	76	11535	3.6	421	65	11531	420															
1953	51	11321	3.6	406	48	11421	411	41	11462	413												

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD AVERAGE RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
						1954	45	10802	3.6	384	41	11440	421	29	11809	432
						1955	28	11664	3.5	412	27	11249	410	25	11324	418
						1956	10	12260	3.4	420	8	12710	449	4	11979	404
						1957	5	12698	3.6	457	3	14087	481	2	13020	457
783017	1	1	13150	3.2	423	1951	1	13150	3.2	423						
784099	4	11	13130	3.3	426	1948	2	11495	3.4	386	1	13020	468			
						1949	2	13455	3.2	422	2	12995	455			
						1950	2	12350	3.1	384	2	12165	426			
						1951	1	11760	3.3	383	1	11740	437			
						1952	2	12305	3.2	389	2	10695	388			
						1953	1	11850	3.2	380	1	10710	410	1	11074	398
						1954	1	15050	3.2	480	1	12970	453	1	11510	415
784721	75	222	12804	3.4	438	1949	8	14331	3.3	476	4	14108	507			
						1950	37	13145	3.5	456	21	13212	468			
						1951	37	12228	3.5	425	25	12622	443			
						1952	39	12793	3.4	441	33	12812	447			
						1953	30	12843	3.4	435	29	12929	454	23	12495	437
						1954	28	12973	3.4	445	27	12578	446	24	12734	454
						1955	17	13104	3.4	449	17	12992	464	17	13091	468
						1956	12	12717	3.5	439	10	13104	470			
						1957	5	10830	3.3	356	5	12242	461	5	12557	471
						1958	6	13178	3.5	463	6	13472	479	5	12980	478
						1959	3	12767	3.4	433	3	11487	410	2	12770	452
784932	8	24	9807	3.5	337	1948	4	10373	3.4	344	1	8750	281			
						1949	6	9877	3.3	326	1	11240	365			
						1950	5	9416	3.6	344						
						1951	4	9213	3.6	327	2	9035	302			
						1952	1	9760	3.6	356						
						1953	1	8870	3.4	300						
						1954	1	6260	3.8	241						
						1955	1	7730	3.2	245						
						1956	1	8280	3.1	259						
786950	3	7	11027	3.7	407	1947	2	12205	3.8	458						
						1948	2	9620	3.6	342						
						1949	2	11015	3.5	389						
						1950	1	12680	3.5	448						
787489	32	87	11069	3.6	396	1947	9	11554	3.5	404						
						1948	9	11751	3.4	398	1	10860	404			
						1949	9	13560	3.4	459	3	12623	458			
						1950	10	12280	3.8	471	5	11862	446			
						1951	9	10966	3.6	397	5	12534	455			
						1952	11	10590	3.6	377	9	9948	356			
						1953	9	10820	3.5	383	9	10836	394	4	11222	403
						1954	11	11105	3.7	418	10	11547	413	8	11238	377
						1955	4	13608	3.6	487	4	12203	453	3	13527	504
						1956	2	14940	3.5	519	2	12835	473			
						1957	1	12060	3.7	441	1	11460	422	1	13113	404
						1958	1	16080	3.5	555	1	12980	461	1	13821	517
						1959	2	11870	3.6	423	2	11850	434	1	15543	564
787503	2	9	11623	3.7	434	1947	2	10535	3.8	397						
						1948	2	11695	3.7	428						
						1949	2	11715	3.7	453						
						1950	2	13175	3.8	498						
						1951	1	12500	3.6	475						
787934	2	3	13483	3.2	430	1947	1	14230	3.1	448						
						1948	1	12690	3.2	417						
						1949	1	12580	3.2	405						
788063	88	223	11545	3.4	390	1947	21	11808	3.5	410	1	11190	499			
						1948	22	11791	3.5	408	5	11812	442			
						1949	31	12048	3.4	413	8	11659	441			
						1950	30	12077	3.4	408	9	11143	401			
						1951	27	11816	3.4	396	19	11466	419			
						1952	28	11957	3.4	402	20	11391	408			
						1953	19	11985	3.3	395	19	11260	408	8	10709	377
						1954	20	11798	3.3	392	20	11530	406	15	11574	409
						1955	10	11890	3.3	389	10	11833	425	7	11788	414
						1956	8	12313	3.3	405	6	10858	398	2	12029	442
						1957	5	11598	3.2	371	5	11826	422	4	12083	429
						1958	2	10745	3.2	341	2	11765	418			
790123	25	62	12598	3.7	460	1949	1	8120	3.8	306	1	8650	300			
						1950	7	12896	3.9	497	3	13477	499			
						1951	10	12085	3.6	431	4	12658	456			
						1952	10	12037	3.6	436	8	12101	431			
						1953	6	13887	3.4	473	0	12777	453	5	12973	459
						1954	7	12251	3.6	438	7	12110	437	6	12237	447
						1955	6	12873	3.6	462	6	12368	449	6	11525	414
						1956	1	8780	3.0	263	1	11910	413			
						1957	6	14027	3.6	502	6	12668	488	1	14061	513
						1958	5	14230	3.9	550	5	13462	488	1	12731	471
						1959	3	13237	3.8	487	3	14167	535	2	13494	499



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORD NO.	HFC MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
790365	28	89	11515	3.5	405	1947	6	11963	3.5	411	1	10600	377				
						1948	6	12440	3.4	420	1	11500	403				
						1949	17	11578	3.6	416	4	11778	446				
						1950	16	12062	3.6	431	6	12468	423				
						1951	14	11176	3.6	403	8	11819	412				
						1952	8	11473	3.4	392	7	11436	391				
						1953	11	11698	3.4	400	10	12101	423	11	11027	364	
						1954	5	11370	3.6	417	5	12402	442	5	12245	435	
						1955	2	11865	3.9	452	2	12265	432	2	11892	402	
						1956	2	13295	3.4	446	2	12670	432				
790599	8	20	10889	3.5	383	1948	2	11820	3.5	405							
						1949	2	10825	3.4	367	1	11500	402				
						1950	2	8980	3.4	302	1	11700	426				
						1951	1	6030	3.2	221	1	10490	393				
						1952	1	9700	3.6	348	1	10270	346				
						1953	3	11707	3.5	406	3	10553	384	3	10846	379	
						1954	3	11330	3.7	412	4	11495	418	3	11231	397	
						1955	3	10290	3.0	386	3	11223	408	3	11365	423	
						1956	1	13060	3.4	446							
						790971	3	11	9766	3.5	342	1947	5	10414	3.4	360	
1948	1	9140	3.5	323													
1949	1	11960	3.6	425													
1950	2	10085	3.6	367													
1951	2	7595	3.9	293													
790977	22	51	11788	3.6	426	1948	4	12783	3.8	483	1	15750	573				
						1949	8	11773	3.7	442	3	12780	461				
						1950	8	11774	3.5	416	6	12275	435				
						1951	10	12029	3.6	429	6	11562	418				
						1952	7	11583	3.7	430	7	11761	409				
						1953	5	13004	3.7	400	5	11806	418	4	11690	421	
						1954	3	12530	3.9	484	3	12943	470	3	12346	449	
						1955	1	12110	4.4	528	1	14440	540	1	11423	441	
						1956	1	12650	4.3	553	1	17440	632				
						1957	2	12275	3.2	385	2	12640	454	2	12748	457	
						1958	1	9840	3.0	290	1	12446	449	1	12884	450	
						1959	1	16620	3.5	589	1	14150	520	1	13952	507	
791357	3	7	10139	3.7	376	1950	1	12630	3.5	439	1	11020	376				
						1951	2	8015	3.8	301	2	10355	357				
						1952	2	10165	3.8	382	2	10455	359				
						1953	2	11720	3.8	434	2	10700	378	2	10442	363	
792389	8	23	10661	3.6	384	1947	6	10013	3.6	361							
						1948	4	10610	3.6	387							
						1949	3	10073	3.5	351	1	14620	468				
						1950	1	13860	3.8	530	1	14270	467				
						1951	2	12575	3.7	465	2	13135	459				
						1952	2	12015	3.6	425	2	12795	465				
						1953	2	14790	3.8	564	2	13965	497	1	13625	477	
						1954	1	14160	3.3	472	1	12800	475				
						1957	1	11390	3.4	386				1	11064	405	
						1958	1	12940	3.5	452	1	12650	461				
798291	198	615	11758	3.7	437	1948	16	13246	3.5	467	2	13130	449				
						1949	70	12687	3.7	465	31	11927	425				
						1950	113	11887	3.7	444	58	11623	424				
						1951	116	11393	3.8	427	78	11662	427				
						1952	90	11469	3.7	425	79	11652	428				
						1953	66	11793	3.7	436	65	11724	430	53	11450	418	
						1954	60	11688	3.7	437	58	11627	429	54	11833	438	
						1955	38	11746	3.6	424	36	11703	430	35	11554	424	
						1956	23	12659	3.7	463	18	12510	449	4	11906	405	
						1957	13	13259	3.6	481	10	12841	478	10	13312	498	
						1958	8	13468	3.4	470	7	13367	499	7	13457	506	
798451	1	1	11160	3.8	421	1957	1	11160	3.8	421							
798700	2	2	9280	3.9	364	1947	1	8910	3.7	331							
						1951	1	9650	4.1	397							
800000	3	12	11989	3.5	412	1948	1	7530	3.5	261							
						1949	1	5340	3.8	201	1	13050	467				
						1950	2	11390	3.3	368	2	13620	489				
						1951	3	13043	3.4	443	2	14565	526				
						1952	3	10283	3.5	368	3	13580	464				
						1953	2	14545	3.4	486	2	12055	418	1	13581	491	
800014	1	1	10050	3.2	322	1958	1	10050	3.2	322	1	10920	375	1	11903	409	
804071	1	3	10823	3.2	341	1950	1	11400	3.0	344	1	12660	434				
						1951	1	10860	3.3	356	1	13180	466				
						1952	1	10210	3.2	322	1	13930	506				
804734	5	11	10993	3.5	385	1947	1	8850	3.5	312							
						1948	2	13035	3.8	485							
						1949	4	10158	3.5	359							
						1950	1	10290	3.4	351							
						1951	1	11750	3.4	396	1	11620	405				
						1952	1	11250	3.4	384	1	12090	444				

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER-AVERAGE BY SIRE						RECORD-AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	YEARLY MILK LB.	YEARLY FAT LB.
						1954	HOLSTEIN 1	12040	3.3	400	1	11270	397	1	12273	431
805117	4	6	9605	3.8	364	1947	3	9127	3.8	345						
						1948	2	11060	3.5	384						
						1950	1	7740	4.1	321						
805118	37	98	11133	3.5	388	1947	4	11863	3.4	404						
						1948	8	12189	3.4	410	1	12880	391			
						1949	8	12940	3.3	431	4	14245	481			
						1950	11	11279	3.5	395	7	11974	437			
						1951	16	11469	3.4	392	13	11812	422			
						1952	16	11657	3.4	399	15	11812	424			
						1953	12	11693	3.5	408	12	12166	426	7	12463	438
						1954	10	11636	3.4	395	10	11340	415	6	11852	433
						1955	5	9682	3.5	337	5	11476	413	4	11208	405
						1956	5	11154	3.7	417	2	10645	396	2	11080	404
						1957	2	12375	3.5	434	2	11440	419	2	11762	415
						1958	1	7690	3.5	270	1	8000	270	1	7990	293
805972	3	9	12550	3.4	434	1948	3	13650	3.5	482						
						1949	2	13085	3.4	438						
						1950	2	14155	3.5	490	1	11720	367			
						1952	1	16880	3.6	612	1	10750	322			
						1953	1	11000	3.1	341	1	12400	376	1	13211	433
807399	101	233	10451	3.4	359	1947	55	10150	3.4	347	3	11263	429			
						1948	35	10694	3.5	373	6	11507	404			
						1949	29	10387	3.4	357	7	11063	402			
						1950	30	10324	3.5	359	10	10682	375			
						1951	28	10849	3.5	384	14	10709	385			
						1952	19	11887	3.4	412	16	10891	392			
						1953	15	11361	3.5	379	15	11036	406	8	9942	347
						1954	10	10973	3.3	362	10	11266	409	8	10888	389
						1955	4	10443	3.3	341	4	10840	393	3	10871	370
						1956	4	12445	3.2	393	4	11503	431	1	11456	410
						1957	2	11525	3.3	367	1	12670	448	2	10922	361
						1958	1	17900	3.4	603	1	13560	477			
						1959	1	14810	3.3	483	1	14100	516	1	13876	488
807846	27	102	11229	3.7	412	1947	10	12768	3.5	444	2	13565	476			
						1948	18	11172	3.6	416	7	13763	486			
						1949	16	10600	3.7	392	6	12137	432			
						1950	19	11732	3.7	440	12	11569	410			
						1951	14	10856	3.6	408	9	12066	422			
						1952	13	10912	3.6	390	12	11591	398			
						1953	7	11857	3.7	443	7	12031	441	5	11519	406
						1954	4	12108	3.5	419	4	11223	407	4	10797	376
						1955	1	15670	3.3	522	1	12060	432	1	13015	470
808496	43	101	10210	3.6	369	1950	2	14175	3.5	486	2	13255	488			
						1951	14	10669	3.6	376	10	9993	362			
						1952	16	10931	3.6	388	14	10689	374			
						1953	26	9786	3.7	355	24	10762	386	21	10644	378
						1954	18	9772	3.5	344	17	9962	362	15	10311	365
						1955	10	9702	3.6	346	10	9569	352	9	9534	347
						1956	4	9890	3.6	372	3	11603	411	3	11209	376
						1957	2	11050	3.5	387	2	12125	430	2	12617	456
						1958	3	11740	3.4	406	3	11157	438	2	8917	368
						1959	5	11784	3.6	429	5	9833	363	3	11394	440
						1960	1	10840	3.2	352	1	8930	310	1	9603	335
808860	20	49	12396	3.6	440	1947	5	10412	3.6	369						
						1948	4	14740	3.6	528	2	13100	597			
						1949	6	12468	3.7	456	1	13710	543			
						1950	9	12802	3.8	482	4	13963	499			
						1951	6	11778	3.7	434	4	12758	471			
						1952	6	12452	3.5	439	4	12043	449			
						1953	3	13197	3.4	444	3	12300	461	2	12055	446
						1954	3	11263	3.2	375	3	11703	407	3	11016	389
						1955	2	11520	3.1	350	2	10940	404	2	10993	392
						1956	2	11675	3.6	423	1	11850	428			
						1957	1	10880	3.1	338	1	12360	455	1	13320	482
						1958	2	13590	3.3	454	1	12410	466	1	12361	451
811487	151	324	10561	3.8	402	1950	6	10907	3.8	414	2	12805	449			
						1951	46	10856	3.8	413	35	12054	426			
						1952	59	10402	3.8	399	53	12028	430			
						1953	64	10592	3.8	401	64	11696	419	36	11285	407
						1954	52	10012	3.8	377	50	11355	401	39	11782	418
						1955	35	10105	3.8	383	32	11345	404	27	11499	412
						1956	19	11039	3.8	420	13	11923	427	9	11816	423
						1957	22	11936	4.2	494	19	13158	480	18	12057	441
						1958	12	12018	4.0	462	12	12642	491	10	13304	492
						1959	9	10927	3.8	405	9	12960	452	7	13127	476
						1960	2	10450	3.6	378	2	12300	441	2	12808	466
811875	3	13	11938	3.2	377	1949	1	13850	3.2	442	1	14400	462			
						1950	3	9623	3.3	316	3	11990	387			
						1952	3	13087	3.2	417	3	12157	407			
						1953	3	12557	3.2	406	3	11567	398	2	12525	474
						1954	1	14710	2.9	429	1	14030	503	1	13603	436
						1956	1	12400	2.9	360	1	10530	386			
						1957	1	10350	2.8	291	1	11850	430	1	12339	428
812303	43	129	10636	3.6	380	1947	6	9537	3.7	353						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONT'LMP. AV.			YEARLY HERD AVERAGE		
											RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
						1948	7	10437	3.7	379						
						1949	16	10659	3.5	375	3	10590	362			
						1950	22	10391	3.5	367	10	10733	376			
						1951	24	11962	3.5	418	19	11912	423			
						1952	19	11593	3.4	401	15	10455	378			
						1953	14	11005	3.6	398	13	10441	375	13	11073	398
						1954	12	10578	3.6	379	11	10367	386	11	10438	385
						1955	5	10706	3.6	383	4	9598	358	4	10728	379
						1956	3	10897	3.5	378	2	10655	400	2	10497	383
						1958	1	14600	3.4	502	1	11090	412			
812359	1	1	5680	4.2	240	1952	1	5680	4.2	240	1	11350	414			
813025	38	65	11060	3.2	352	1947	9	9334	3.3	310	2	13685	477			
						1948	20	10998	3.2	348	2	13175	452			
						1949	11	12368	3.2	390	5	12360	409			
						1950	12	10731	3.3	348	4	12100	413			
						1951	11	10825	3.2	343	4	11850	407			
						1952	7	10731	3.2	348	7	11473	393			
						1953	7	12283	3.3	399	7	11579	418	6	11511	394
						1954	4	13145	3.2	419	4	11943	430	4	12661	441
						1955	3	12927	3.2	416	3	11853	434	3	12720	433
						1958	1	16600	2.9	474	1	14240	480	1	13080	506
813170	2	3	11558	3.5	401	1953	1	12620	3.5	449	1	12120	432	1	12644	444
						1957	1	11130	3.5	385	1	10660	362	1	10900	379
						1958	1	9460	3.4	319	1	11710	423	1	12273	431
813654	5	16	14727	3.5	497	1950	1	8190	3.7	307	1	11490	399			
						1951	2	17915	3.4	592	2	13655	489			
						1952	2	10550	3.9	402	2	11190	405			
						1953	4	13135	3.6	457	4	12640	450	4	12729	445
						1954	4	13023	3.5	455	4	12813	465	2	11489	405
						1955	2	12620	3.5	424	2	11790	417	2	11734	403
						1957	1	11430	3.6	408	1	14740	584	1	13080	506
815176	9	23	10431	3.6	374	1949	1	10850	3.2	342	1	7970	297			
						1950	4	10203	3.6	365	3	12793	452			
						1951	6	11110	3.5	385	4	11600	409			
						1952	3	10557	3.6	385	3	11860	402			
						1953	3	10867	3.4	371	3	11032	397	4	11508	402
						1954	2	10500	3.6	376	2	12275	423	2	11936	409
						1956	1	9030	3.7	330	1	12680	437	1	13091	461
815241	15	36	10574	3.5	369	1947	1	11000	3.1	343						
						1948	3	12067	3.7	440						
						1949	6	12328	3.6	435	2	12660	447			
						1950	9	10453	3.7	391	4	11200	424			
						1951	7	9409	3.6	334	4	10475	384			
						1952	4	9540	3.7	350	3	10073	377			
						1953	3	12460	3.3	420	3	11260	433	3	10308	382
						1954	3	11703	3.5	405	3	9830	387	3	10900	414
816372	33	67	11252	3.7	417	1952	8	10404	4.2	433	7	11923	464			
						1953	16	11384	3.7	420	15	12017	454	13	11400	409
						1954	17	10341	3.8	391	17	11719	426	12	11535	419
						1955	11	11366	3.5	404	11	12059	423	11	11647	415
						1956	7	10613	3.6	386	6	11703	405	4	11118	396
						1957	4	13413	3.8	510	3	11123	412	3	11834	437
						1958	4	12675	3.6	462	4	12293	440	3	12644	448
819478	1	2	12040	3.8	440	1957	1	14750	3.3	485	1	12560	446			
						1959	1	9330	4.2	395	1	10600	373	1	11020	400
820661	5	9	11486	3.4	392	1951	4	10885	3.5	359						
						1952	3	12203	3.7	449	3	13093	456			
						1953	1	15300	3.6	556	1	12320	453			
						1956	1	14400	3.6	519	1	12320	462			
822438	33	85	11614	3.5	396	1949	2	13225	3.3	442	2	11685	398			
						1950	5	11528	3.6	417	3	14113	488			
						1951	15	11707	3.5	406	12	11239	404			
						1952	20	11499	3.4	392	19	11837	422			
						1953	18	11964	3.4	412	18	11992	433	14	11837	426
						1954	11	12179	3.4	418	11	11268	409	10	11985	425
						1955	5	10678	3.4	364	5	14376	499	5	12919	456
						1956	3	12467	3.4	424	1	13750	473	2	12644	452
						1957	2	16955	3.5	573	2	14475	494	2	12797	467
						1958	2	15495	3.5	531	2	15145	533	2	13680	504
						1959	2	13730	3.4	470	2	13265	493	2	13876	505
822715	1	2	9845	3.6	349	1948	1	9240	3.6	333						
						1949	1	10450	3.5	365						
822785	70	164	11156	3.5	383	1949	23	10216	3.5	357	7	11900	411			
						1950	33	11719	3.4	400	15	12108	440			
						1951	35	11500	3.6	406	27	11477	417			
						1952	26	10712	3.5	367	24	11854	421			
						1953	17	11491	3.3	382	16	11826	414	10	11807	421
						1954	15	11789	3.4	402	15	11578	411	12	12137	436
						1955	6	11248	3.6	399	6	11690	414	5	12426	443
						1956	7	11363	3.6	409	4	12155	441	1	9799	347
						1957	1	16120	3.5	559	1	13920	511	1	14344	518
						1959	1	14710	3.3	480	1	14380	513			
822837	110	268	11902	3.8	449	1950	3	10387	4.2	432						
						1951	25	11533	3.8	439	19	11612	435			
						1952	62	11510	3.8	433	58	11564	421			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1953	59	12026	3.6	456	56	11703	439	46	11614	425
						1954	43	11858	3.8	447	40	11876	439	34	12231	453
						1955	26	12856	3.8	492	23	12275	453	23	11947	442
						1956	18	13042	3.8	494	17	13289	492	7	12960	493
						1957	18	12953	3.9	497	18	13703	507	12	12769	460
						1958	9	15018	3.6	542	9	13080	488	8	12997	483
						1959	5	11510	3.8	437	5	12252	440	4	13124	466
823055	127	333	12051	3.6	433	1950	3	11150	3.5	386	1	12550	495			
						1951	36	11634	3.6	418	26	11503	414			
						1952	64	12245	3.6	438	60	11836	431			
						1953	72	12481	3.6	447	69	11841	430	57	11550	421
						1954	55	12027	3.6	437	52	11650	428	44	11792	431
						1955	38	12126	3.6	433	36	11863	428	32	11981	439
						1956	25	12714	3.6	459	19	11755	441	7	12751	468
						1957	19	13314	3.7	489	15	13007	499	11	12656	482
						1958	14	13099	3.7	478	13	13427	501	9	12665	481
						1959	7	11264	3.9	431	7	12746	475	7	13071	468
823710	10	46	12073	3.5	420	1947	5	12306	3.6	436	1	12570	438			
						1948	6	12912	3.5	446	3	12463	457			
						1949	7	12934	3.4	442	2	13280	497			
						1950	5	11548	3.7	427	3	11233	407			
						1951	5	11724	3.6	422	4	12220	466			
						1952	4	11450	3.6	427	4	12080	445			
						1953	4	11843	3.6	419	4	11990	436	3	12033	442
						1954	3	13303	3.5	460	3	11370	424	2	10104	375
						1955	3	11553	3.4	389	3	11290	427	2	10519	411
						1956	2	10670	3.5	368	2	12290	444			
						1958	2	11005	3.4	373	2	12205	437			
824237	15	31	10506	3.4	354	1950	3	11023	3.4	368	2	10640	391			
						1951	4	9258	3.3	310	2	10560	383			
						1952	6	11363	3.5	395	5	11302	407			
						1953	7	10681	3.3	350	5	11848	424	5	11173	394
						1954	5	9694	3.5	335	4	11263	388	4	11009	388
						1955	2	11680	3.5	406	1	15000	563			
						1956	2	10825	3.6	383						
						1957	1	12650	3.3	417	1	12460	468	1	11085	402
						1958	1	8310	3.5	268	1	13210	447	1	13287	461
824617	20	68	11079	3.6	394	1949	7	11769	3.6	420	4	12528	442			
						1950	12	10974	3.6	393	7	11629	417			
						1951	15	11131	3.5	396	12	11277	407			
						1952	12	11423	3.5	394	12	11109	401			
						1953	8	12105	3.6	439	7	12489	447	3	11874	430
						1954	5	11616	3.5	408	4	10528	368	3	11452	405
						1955	4	12143	3.6	435	3	13060	457	3	12909	460
						1956	2	10640	3.7	389	1	12720	426	1	12655	434
						1957	2	11530	3.4	394	1	12180	444	1	11816	431
						1958	1	7640	2.9	222	1	10220	382			
825625	3	13	9454	3.6	341	1951	3	8867	3.7	325	3	11063	411			
						1952	2	9885	3.8	372	2	10405	416			
						1953	2	11370	3.4	394	2	12325	435	1	10181	339
						1954	2	10915	3.5	390	2	12365	454	1	9995	334
						1955	3	10393	3.9	392	3	12413	484	1	9734	366
						1956	1	14560	3.7	532	1	12980	490			
826182	1	2	12840	3.8	488	1949	1	14400	3.7	532						
						1950	1	11280	3.9	444						
826435	68	203	11221	3.8	424	1950	3	10977	4.0	436	2	13405	476			
						1951	28	11495	3.9	447	20	11841	440			
						1952	42	11511	3.8	439	35	11857	436			
						1953	38	11354	3.9	439	34	12011	440	28	11595	425
						1954	35	10857	3.9	421	30	11872	441	28	11794	438
						1955	23	11694	3.8	442	21	12077	441	19	11951	441
						1956	13	11585	3.8	441	11	11738	443	3	11699	470
						1957	14	11231	3.7	417	13	12384	445	12	11964	444
						1958	5	11112	3.7	407	5	12454	444	3	12143	458
						1959	2	11175	3.7	414	2	12575	460	2	11718	422
826750	163	440	12093	3.7	449	1951	33	11827	3.7	435	29	11948	441			
						1952	87	12036	3.7	447	82	11534	424			
						1953	90	12455	3.0	460	95	11907	440	77	11389	417
						1954	79	12045	3.6	451	76	11808	438	60	12130	448
						1955	56	12628	3.7	461	53	11975	439	51	11730	437
						1956	33	12262	3.7	463	26	12512	460	14	11615	436
						1957	26	13736	3.8	514	24	13569	508	22	12660	476
						1958	19	13629	3.6	467	18	13163	486	16	13211	500
						1959	9	15230	3.5	461	8	13314	476	8	14072	513
827033	1	2	19875	3.9	779	1957	1	19120	3.9	754	1	15100	609	1	13102	532
						1958	1	20630	3.9	803	1	15850	653	1	13701	559
828627	1	1	9380	3.1	294	1952	1	9380	3.1	294	1	12460	388			
828821	5	9	11189	3.9	440	1953	3	12093	3.8	465	3	11653	418	1	9200	332
						1954	4	10970	4.0	434	3	11240	395	2	11091	412
						1955	1	9900	3.3	329	1	9760	347	1	10224	363

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
						1956											
							HOLSTEIN										
							1	8730	3.3	291		1	9470	344			
829607	23	50	11641	3.6	422	1947	1	12450	3.9	490							
						1948	3	11960	3.2	388	1	11840	437				
						1949	8	11804	3.7	430	2	14735	511				
						1950	8	10651	3.6	400	1	10880	380				
						1951	5	11898	3.6	424	2	13680	500				
						1952	5	11482	3.7	423	4	13775	508				
						1953	5	13310	3.7	496	5	11640	424	3	12779	483	
						1954	4	9158	3.6	332	4	12020	440	4	11938	438	
						1955	5	11354	3.7	419	4	12403	460	4	10745	387	
						1956	2	9395	3.6	333	1	10890	400	1	10519	360	
						1957	1	14646	4.1	598	1	10960	487	1	11282	432	
						1958	1	17030	3.5	604	1	15010	594	1	11870	461	
						1959	2	13135	3.6	474	2	12880	477	2	12481	462	
830955	3	14	12257	3.5	429	1947	1	12810	3.4	433							
						1948	1	12750	3.5	442							
						1949	1	13230	3.3	438							
						1950	1	14750	3.5	518							
						1951	2	13280	3.6	473							
						1952	3	10627	3.6	384							
						1953	2	8275	3.4	277							
						1954	1	9330	3.6	340							
						1955	1	11790	3.2	382							
						1956	1	11390	3.6	415							
831073	70	140	12519	3.7	456	1952	1	9200	4.0	372	1	10220	390				
						1953	3	11677	3.9	456	2	10845	397		1	10900	388
						1954	40	11883	3.6	429	37	11572	426	31	11416	423	
						1955	37	12613	3.6	451	34	12031	438	31	11845	431	
						1956	19	13571	3.6	479	15	12094	445	8	12125	446	
						1957	18	13338	3.7	496	15	13821	504	15	12822	477	
						1958	17	13019	3.6	477	16	13609	506	13	13327	474	
						1959	5	13934	3.6	500	5	13006	491	4	13222	502	
831861	9	21	12645	3.5	443	1952	3	14610	3.5	501	3	12717	436				
						1953	5	11448	3.5	404	4	12585	431	3	11547	396	
						1954	5	9938	3.5	347	3	12017	406	3	11420	395	
						1955	4	11925	3.7	441	4	12810	441	4	13189	460	
						1956	1	10510	3.7	388	1	12220	434	1	13396	465	
						1957	2	12350	3.7	456	1	13430	457	1	13135	467	
						1959	1	14240	3.6	511	1	12120	456				
832151	35	113	11167	3.5	387	1949	9	11734	3.5	411	4	12953	452				
						1950	27	11144	3.6	392	11	12247	436				
						1951	16	10974	3.4	375	12	12027	424				
						1952	15	12339	3.5	428	15	11898	426				
						1953	13	11928	3.5	416	12	12114	430	7	11708	414	
						1954	12	11759	3.4	397	11	11400	410	9	11894	423	
						1955	8	11756	3.4	407	8	11551	413	8	11343	405	
						1956	5	11680	3.5	406	2	11895	431	2	10671	371	
						1957	6	14688	3.4	497	5	13178	472	5	12300	442	
						1958	4	12788	3.5	445	4	13290	455	4	12314	437	
						1959	3	12473	3.5	415	3	13297	465	3	12844	458	
832249	58	146	11551	3.4	392	1947	11	11810	3.4	402							
						1948	9	10974	3.5	376	1	16210	567				
						1949	12	12322	3.4	426	1	16730	531				
						1950	16	12144	3.3	407	9	12419	439				
						1951	27	11579	3.4	396	15	11550	417				
						1952	20	11989	3.4	409	16	11830	427				
						1953	22	11951	3.4	402	21	11690	416	11	11707	397	
						1954	8	12671	3.4	425	7	11389	422	5	13172	415	
						1955	8	12721	3.5	452	7	11264	404	6	12061	415	
						1956	4	12508	3.4	417	4	11338	428				
						1957	4	13155	3.3	429	2	13945	479	2	12933	463	
						1958	2	12505	3.7	467	2	12530	457				
						1959	1	11430	3.2	370	1	11570	424	1	11674	429	
832250	48	149	11087	3.5	386	1947	27	10430	3.4	357	8	11628	429				
						1948	22	11746	3.5	407	9	11664	431				
						1949	25	11922	3.5	418	9	12061	433				
						1950	24	12480	3.4	423	13	12239	431				
						1951	16	11931	3.5	412	12	11385	415				
						1952	14	13182	3.5	453	14	12403	440				
						1953	6	11741	3.5	403	8	12681	450	6	12057	428	
						1954	8	11184	3.4	376	8	12033	436	5	12971	454	
						1955	2	12550	3.2	404	2	11335	406	1	12034	412	
						1956	1	13390	3.2	431	1	12650	427	1	11162	391	
						1957	1	15750	3.5	550	1	12080	398	1	11205	433	
						1958	1	13000	3.2	414	1	11450	399	1	12230	437	
832251	3	8	10693	3.6	377	1948	1	6290	4.7	299							
						1949	2	11890	3.3	391							
						1950	1	13530	3.2	439							
						1951	2	10245	3.6	383	1	11590	401				
						1952	1	11160	3.7	411	1	12360	445				
						1953	1	7350	3.5	258	1	11610	394	1	12197	445	
832252	38	108	10912	3.3	365	1947	19	10539	3.4	353	1	12930	446				
						1948	13	11525	3.4	389	1	13690	452				
						1949	18	10967	3.4	379	5	13762	467				
						1950	15	11555	3.3	386	6	12372	426				



TABLE 15.—DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY BREED,  
BY YEAR OF FRESHENING—RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1951	14	10871	3.4	374	7	11021	390			
						1952	12	13480	3.3	445	9	12093	431			
						1953	8	12566	3.4	418	8	11715	420	2	12650	452
						1954	7	12846	3.4	435	7	11700	421	4	12004	420
						1955	1	15280	3.5	461	1	9900	357	1	12034	412
						1957	1	14040	3.1	439	1	10830	433			
835969	2	7	16306	3.5	566	1948	1	16880	3.4	567	1	14950	538			
						1949	2	15960	3.6	574	1	15510	556			
						1950	1	18020	3.5	627	1	14320	509			
						1951	1	17070	3.2	549	1	14860	529			
						1952	1	17230	3.3	570	1	13490	462			
						1953	1	14900	3.1	458	1	14050	481	1	13309	471
834119	1	1	14880	3.5	526	1953	1	14880	3.5	526	1	10480	376			
834606	47	107	11184	3.6	400	1951	23	11830	3.6	424	17	11471	427			
						1952	26	11299	3.6	407	25	11666	435			
						1953	19	11223	3.6	402	16	12111	454	13	11655	430
						1954	13	10562	3.7	389	11	11313	413	8	11674	434
						1955	11	10975	3.6	389	9	12513	446	9	11188	411
						1956	4	11866	3.6	432	3	13303	471			
						1957	6	12406	3.6	442	4	12913	478	3	13026	476
						1958	2	13170	3.4	433	2	13070	500	1	12077	448
						1959	1	13160	3.4	453	1	11600	425	1	12611	453
834649	10	19	13301	3.8	492	1951	1	15470	3.8	581	1	14990	521			
						1952	5	11278	3.7	412	5	10826	397			
						1953	2	16475	3.7	621	1	15620	546	2	12917	444
						1954	3	14840	3.7	543	3	13093	452	2	13080	469
						1955	4	15018	3.8	559	4	14078	511	2	13772	460
						1956	2	17890	3.7	659	2	14535	504	2	14737	522
						1957	1	19530	4.2	828	1	16130	600	1	15238	567
						1958	1	13700	3.6	517	1	12130	434			
836253	1	5	11164	3.5	395	1948	1	11270	3.5	396	1	11350	392			
						1949	1	9310	3.3	312	1	11090	422			
						1950	1	12040	3.7	441	1	13960	529			
						1951	1	12700	3.6	462	1	9960	369			
						1952	1	10500	3.5	363	1	11320	408			
837149	1	1	11250	3.1	348	1950	1	11250	3.1	348						
837462	33	85	12920	3.4	439	1949	7	11874	3.5	414	4	12458	447			
						1950	8	13481	3.4	452	4	12870	429			
						1951	12	12003	3.4	403	7	10756	361			
						1952	10	12581	3.4	438	10	11700	405			
						1953	13	13192	3.5	441	13	11643	432	5	11120	394
						1954	14	14146	3.4	486	14	11756	428	10	12264	441
						1955	11	13240	3.3	442	11	12157	432	8	12304	430
						1956	4	12743	3.3	425	4	11413	420			
						1957	3	13103	3.3	435	3	11780	434	1	10606	383
						1958	2	18160	3.5	603	2	14495	525			
						1959	1	14670	3.1	449	1	14110	501	1	13309	458
837641	146	233	12795	3.5	442	1953	8	13138	3.4	453	8	13150	463	4	11944	422
						1954	25	12926	3.5	451	22	11657	420	18	12256	428
						1955	44	12161	3.5	426	42	11911	426	33	11906	424
						1956	40	12651	3.5	444	26	12215	438	5	12197	437
						1957	35	13882	3.5	482	28	13271	479	22	12532	451
						1958	40	13397	3.4	457	39	13114	470	24	12383	444
						1959	31	12936	3.5	451	31	12578	455	25	13121	476
						1960	10	13515	3.4	453	10	12559	451	9	12961	463
837973	1	3	11263	3.4	379	1951	1	9050	3.6	330						
						1954	1	12080	3.4	416	1	15630	567	1	14235	521
						1955	1	12660	3.1	391	1	14560	516	1	13745	505
838732	1	3	13020	3.6	471	1952	1	11010	3.5	385	1	13890	509			
						1954	1	14680	3.4	501	1	13380	477	1	13287	492
						1955	1	15370	3.9	527	1	15630	545	1	13320	485
838880	6	23	11907	3.7	435	1947	4	11425	3.7	424	2	12865	459			
						1948	3	11187	3.7	408	2	10970	378			
						1949	5	12020	3.7	440	1	12410	446			
						1950	4	11448	3.9	445	2	12445	453			
						1951	4	10825	3.7	400	3	12087	455			
						1952	2	9645	3.9	372	2	10875	396			
						1953	1	13140	3.6	467	1	13960	518	1	12862	477
838881	2	6	8973	3.7	331	1953	1	10130	3.8	388	1	10380	360			
						1954	1	8760	3.9	343	1	8930	340	1	10050	370
						1955	1	9670	3.8	371	1	9680	338	1	9865	352
						1956	1	10400	3.7	388						
						1958	1	8280	3.5	292	1	10150	374	1	11096	415
						1959	1	8030	3.5	284	1	9430	342	1	10486	390
839304	39	140	11505	3.6	408	1947	28	11137	3.5	391	2	12060	424			
						1948	18	11397	3.6	412	6	13465	465			
						1949	22	12306	3.6	439	7	11769	415			
						1950	22	12009	3.6	435	10	11628	420			
						1951	13	12623	3.6	456	9	12502	447			
						1952	11	12579	3.4	432	9	12220	430			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	FAT LB.	
HOLSTEIN																	
839307	16	57	10581	3.9	408	1953	11	12516	3.4	432	10	11730	413	5	12498	436	
						1954	7	11971	3.5	419	6	11700	411	4	12568	438	
						1955	5	13492	3.6	485	3	12917	459	3	13578	489	
						1956	3	14663	3.5	513	2	13155	469	2	13288	482	
						1949	1	7380	4.1	301							
839322	1	1	15160	3.9	586	1950	7	11431	3.7	422	5	12228	432				
						1951	8	11216	3.8	424	5	11692	422				
						1952	6	11768	4.0	467	6	12208	420				
						1953	9	11444	3.9	451	9	12068	425	4	11971	428	
						1954	7	11284	3.9	436	7	12066	419	3	13040	456	
						1955	7	11341	4.0	457	7	11500	406	6	12422	442	
						1956	4	11083	4.0	443	3	13213	475	2	13484	488	
						1957	3	11677	3.7	426	3	12743	467	2	13898	511	
						1958	5	14134	3.9	543	5	14146	525	5	12393	453	
						1958	1	15160	3.9	586	1	13420	478	1	12208	438	
841476	37	68	10139	3.6	366	1951	1	10380	3.3	344	1	9550	330				
						1952	17	10661	3.5	371	16	11126	407				
						1953	25	10348	3.7	381	24	11073	406	21	10644	387	
						1954	12	10415	3.6	376	11	10600	387	11	11057	399	
						1955	8	10288	3.6	372	8	11624	416	6	11445	417	
						1956	2	10035	3.6	355	2	10530	382				
						1957	2	8290	3.5	288	1	9720	349	2	10339	379	
						1958	1	17020	3.1	534	1	12110	440	1	12513	471	
841585	1	2	9185	3.4	307	1954	1	10030	3.4	339	1	11050	386	1	10475	395	
						1955	1	8340	3.3	274	1	9660	345	1	9756	338	
842464	15	48	11323	3.4	388	1950	1	14460	3.3	484							
						1951	8	11911	3.5	418	6	10215	370				
						1952	6	11166	3.5	398	5	12126	409				
						1953	7	12406	3.4	422	6	11313	383	3	10239	342	
						1954	8	10769	3.5	376	7	10060	361	7	9800	350	
						1955	5	11306	3.5	395	4	11340	415	4	11301	402	
						1956	2	11580	3.4	391	1	11650	429				
						1957	5	12282	3.5	430	5	13032	467	2	12743	459	
						1958	3	13657	3.4	468	3	12810	471				
						1959	3	10380	3.2	338	3	12353	431	3	12633	450	
842652	143	366	10950	3.7	403	1949	7	12946	3.6	475	2	14405	462				
						1950	27	10713	3.7	392	19	11656	423				
						1951	42	10946	3.7	409	30	11892	422				
						1952	55	11443	3.7	421	49	11789	424				
						1953	64	11166	3.7	412	60	11466	409	35	11249	404	
						1954	66	10727	3.7	399	61	11194	405	50	11142	407	
						1955	43	10951	3.7	407	39	11230	406	35	11214	406	
						1956	26	10980	3.8	413	21	11183	411	10	11032	411	
						1957	20	11254	3.7	420	19	12078	436	17	11835	430	
						1958	5	12632	3.6	478	5	15222	465	4	12028	465	
						1959	9	11304	3.7	414	9	12571	455	5	12930	465	
						1960	2	10710	3.6	385	2	12260	443	2	12737	472	
						1952	8	12983	3.5	458	7	11263	404				
						1953	80	12551	3.6	449	78	11598	425	58	11057	401	
						1954	135	11990	3.6	435	127	11266	415	112	11681	427	
843189	1	3	13917	3.4	483	1955	102	12374	3.5	457	92	11551	427	90	11557	424	
						1956	71	13509	3.5	477	61	12164	446	21	11670	431	
						1957	60	13879	3.6	495	56	12410	463	52	12601	463	
						1958	59	14065	3.5	493	55	12395	474	51	13012	479	
						1959	27	13926	3.6	507	26	13269	490	24	13767	506	
						1952	1	15650	3.5	550	1	14270	515				
						1954	1	14110	3.5	501	1	11330	400	1	13102	472	
						1955	1	11990	3.3	398	1	11580	419	1	12873	480	
843481	9	34	10842	3.4	373	1948	6	10970	3.4	378	2	12735	425				
						1949	7	11294	3.5	402	4	11065	414				
						1950	6	11493	3.5	404	5	11100	385				
						1951	4	11155	3.2	363	3	11793	422				
						1952	3	12333	3.3	409	3	10590	377				
						1953	3	11047	3.4	373	3	10357	360	3	10228	368	
						1954	3	10507	3.6	380	3	10460	385	3	10402	379	
						1955	2	9965	3.5	349	2	10060	354	2	9974	355	
844122	128	250	12315	3.8	471	1953	26	12757	3.8	484	26	11743	442	21	11431	422	
						1954	72	12083	3.8	459	66	11924	441	58	12274	449	
						1955	63	11695	3.9	449	53	11693	431	51	11611	427	
						1956	32	12434	3.8	474	26	11666	430	13	12636	473	
						1957	26	12448	3.9	487	23	13240	500	22	12687	479	
						1958	20	13416	3.9	521	19	13195	486	17	12871	476	
						1959	9	13594	3.9	530	9	13790	517	8	14001	519	
						1960	2	12430	3.8	480	2	13930	537	2	13091	484	
845079	4	16	10120	4.1	410	1952	2	11505	4.1	468	2	12590	459				
						1953	5	10408	4.0	421	5	12568	463	5	12271	439	
						1954	3	9100	4.1	380	3	12407	460	3	12927	482	
						1955	3	9653	4.1	375	3	11340	425	3	11234	419	
						1957	1	14480	4.0	575	1	12300	451	1	12164	456	

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
845267	3	6	13049	3.2	412	1958	1	13850	3.8	528	1	12590	454	1	11685	428						
						1959	1	5610	4.1	240	1	7360	362	1	12491	450						
						1952	2	16655	3.2	525	2	11580	400									
						1953	2	13845	3.1	426	2	13480	459	2	12470	429						
						1954	1	11210	3.5	392	1	10880	401	1	12415	459						
846979	175	354	11399	3.6	411	1955	1	9600	3.1	301	1	10120	331	1	9984	337						
						1952	1	9340	4.0	370	1	11900	445									
						1953	48	11888	3.6	425	47	12266	446	37	11573	419						
						1954	90	11261	3.6	409	87	11700	433	79	11814	455						
						1955	90	11318	3.6	409	87	11655	433	75	11923	441						
						1956	55	11338	3.6	405	44	12116	442	18	11784	426						
						1957	27	11782	3.6	423	24	12623	461	20	12277	456						
						1958	29	12392	3.6	450	28	12965	481	21	12292	458						
						1959	11	13398	3.6	478	11	13658	501	10	13852	505						
						1960	3	12857	3.8	487	3	11255	455	3	11779	448						
848258	2	4	9890	3.4	325	1951	2	8825	3.4	296	2	10500	350									
						1952	1	8060	3.5	280	1	11450	400									
						1953	1	13850	3.1	428	1	11100	377	1	10181	359						
850298	183	423	11894	3.8	447	1951	15	11690	3.9	451	12	11139	417									
						1952	61	11776	3.6	450	57	11733	431									
						1953	109	11704	3.8	440	104	11607	423									
						1954	79	11565	3.8	437	74	11293	412	83	11061	403						
						1955	61	11913	3.7	441	57	11823	426	63	11485	421						
						1956	39	12478	3.7	464	29	12150	440	55	11427	415						
						1957	33	12390	3.8	477	29	11820	442	11	11905	434						
						1958	18	13358	3.6	483	17	12928	465	27	11758	455						
						1959	8	12376	3.6	452	8	12505	456	16	13098	476						
														8	12808	471						
						850533	7	20	11905	3.4	403	1949	4	12353	3.3	401	2	12170	463			
												1950	1	12190	3.3	401	1	12840	483			
1951	3	12293	3.5	433	3							11913	433									
1952	4	11818	3.5	413	4							11253	401									
1953	4	11283	3.3	368	4							10938	392	3	9679	343						
1954	1	9660	3.3	321	1							8950	336	1	9112	342						
1955	1	13320	3.6	483	1							13880	473	1	12862	468						
1956	2	11833	3.6	422	1							14270	496	1	12600	468						
851096	1	6	13018	3.8	492	1947	1	12360	3.7	452												
						1948	1	13650	3.7	503												
						1949	1	13020	4.0	515												
						1950	1	13570	4.0	539	1	14600	529									
						1951	1	12640	3.7	469	1	13660	457									
						1953	1	12676	3.7	471	1	13790	505	1	13560	475						
852063	11	17	12067	3.7	450	1948	1	10796	3.5	373												
						1949	1	10190	3.3	337												
						1952	4	11935	3.9	462	4	10788	402									
						1953	6	13533	3.7	495	5	12550	465	2	10993	410						
						1954	1	14970	4.2	626	1	12930	464									
						1955	2	13235	3.6	474	2	11890	417	2	12453	458						
						1956	1	6980	2.9	201	1	7570	271									
						1958	1	12840	4.0	513	1	10690	401									
854723	78	146	12342	3.6	444	1953	1	7740	3.5	270	1	9980	375	1	9156	336						
						1954	34	11656	3.7	430	32	11718	428	27	11682	430						
						1955	40	12070	3.5	423	36	11655	419	36	11942	432						
						1956	21	12816	3.4	443	15	12331	452	6	12252	438						
						1957	23	13126	3.6	477	21	12659	468	16	12667	472						
						1958	17	13362	3.6	480	17	13592	498	15	13697	504						
						1959	16	13019	3.5	455	10	12635	462	9	13143	482						
856259	3	10	13353	3.8	509	1950	1	11020	4.0	440	1	11400	452									
						1951	2	16470	3.7	600	2	12945	470									
						1952	2	14370	3.7	519	2	13660	500									
						1953	2	11475	4.2	484	2	12565	465	2	13009	478						
						1954	1	9420	3.9	372	1	11280	399	1	10442	385						
						1956	1	12180	4.0	489												
						1958	1	13480	3.7	501												
857482	211	420	11439	3.8	434	1952	13	11550	3.7	424	13	11822	415									
						1953	34	11694	3.8	448	33	12201	437	18	12222	438						
						1954	74	11206	3.8	427	70	11444	412	60	11765	426						
						1955	78	10714	3.8	411	74	11601	419	71	11747	424						
						1956	57	11168	3.8	429	46	11845	427	12	11038	388						
						1957	66	12107	3.8	465	55	12720	459	50	12139	441						
						1958	50	12331	3.8	469	48	13295	481	32	12938	473						
						1959	42	11796	3.8	448	41	12204	441	32	12036	463						
						1960	6	14510	3.8	552	6	11783	432	5	13483	492						
						857502	9	18	9331	3.5	320	1952	2	9420	3.5	325	2	11520	407			
1953	8	9396	3.5	323	8							10750	382	7	10519	372						
1954	7	9375	3.4	314	7							9624	348	7	9897	352						
1955	1	7690	3.5	274	1							7820	267	1	9091	329						
857507	2	5	13103	3.8	490	1953	2	14615	3.7	541	2	13750	488	2	13604	482						
						1954	2	12195	3.9	468	2	12660	475	2	12824	468						
						1956	1	12510	3.8	480	1	14260	494									
858591	6	13	10795	3.4	368	1953	1	11530	3.7	428												

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1954	5	10880	3.4	374	4	10320	380	3	11983	424
						1955	4	9873	3.5	344	3	9433	337	1	11979	421
						1956	2	11825	3.1	369	2	11925	443	2	11898	432
						1959	1	11750	3.4	395						
858626	23	64	10612	3.6	387	1950	3	10533	4.0	421	1	10100	335			
						1951	13	11365	3.7	422	8	11190	401			
						1952	19	10491	3.6	391	17	10684	375			
						1953	11	10614	3.5	366	11	11266	414	10	11107	400
						1954	8	10346	3.7	379	8	10700	367	8	11043	381
						1955	5	11244	4.0	455	5	12192	428	5	12208	433
						1956	3	11643	4.4	511	3	11507	393	2	10928	370
						1957	1	17150	4.8	830	1	18190	606	1	15576	538
						1958	1	8970	4.2	379	1	14220	465	1	15707	547
858839	1	2	5060	3.3	162	1953	1	5380	2.7	145	1	4670	178	1	9766	326
						1954	1	4740	3.8	178	1	8310	264	1	8785	299
859238	62	115	11421	3.6	405	1952	1	12580	4.4	557	1	11890	446			
						1953	19	11897	3.5	417	19	12075	444	16	11389	409
						1954	40	11297	3.5	397	39	11441	414	29	12018	435
						1955	21	11191	3.6	399	20	12629	442	20	11827	440
						1956	10	11012	3.6	396	8	11889	435	4	12116	444
						1957	14	12146	3.6	432	13	11878	445	11	12201	456
						1958	8	12460	3.6	449	8	12899	477	7	12017	446
						1959	2	12190	3.6	442	2	10785	406	1	11837	462
862248	1	1	13490	3.4	458	1953	1	13490	3.4	458						
863423	1	1	8600	3.6	307	1950	1	8600	3.6	307						
863577	1	7	12373	4.2	523	1951	1	11940	4.6	545	1	13340	489			
						1952	1	13310	3.8	512	1	12100	476			
						1953	1	13950	4.2	585	1	13040	498	1	13069	497
						1954	1	14720	4.2	618	1	17520	637	1	14137	534
						1955	1	10520	4.2	442	1	14210	503	1	13418	517
						1956	1	10600	4.4	462	1	11250	415			
						1957	1	11570	4.3	497	1	15790	562	1	13222	486
863593	43	130	11227	3.4	379	1947	5	10854	3.3	356	1	11970	408			
						1948	13	11449	3.5	399	4	10370	391			
						1949	12	9969	3.6	351	5	12132	410			
						1950	24	11062	3.4	378	15	10761	382			
						1951	19	11402	3.5	392	18	11109	400			
						1952	20	11466	3.4	394	20	11118	394			
						1953	15	11261	3.4	384	15	10631	390	11	10350	372
						1954	11	11825	3.4	400	11	10996	388	9	11119	397
						1955	5	10196	3.2	332	5	10684	385	5	10859	396
						1956	2	10970	3.4	371	1	12070	407	1	11663	375
						1957	1	12250	3.2	397	1	12220	450	1	11020	403
						1958	3	13440	3.0	400	3	15177	458	3	12938	454
863763	83	213	12605	3.6	456	1951	17	12510	3.7	462	13	11677	413			
						1952	32	12053	3.7	446	27	12186	433			
						1953	32	13336	3.7	487	31	12807	449	27	11995	421
						1954	34	11725	3.6	419	29	12059	423	27	11966	421
						1955	28	11946	3.7	438	24	12236	435	20	12079	424
						1956	22	12419	3.7	456	16	12545	463	2	11271	387
						1957	12	12640	3.7	465	12	12866	470	11	12418	456
						1958	25	14164	3.6	516	25	13203	478	15	12652	458
						1959	10	12628	3.5	440	10	11388	406	8	11911	424
						1960	1	11480	3.4	391	1	11610	412	1	10726	377
864216	96	264	11656	3.4	395	1947	48	11483	3.4	385	8	11375	411			
						1948	46	11763	3.4	402	8	12081	442			
						1949	53	11909	3.4	407	8	11920	443			
						1950	43	12362	3.5	433	12	12111	439			
						1951	20	10961	3.5	383	9	11664	428			
						1952	18	12537	3.4	421	16	11513	414			
						1953	16	13366	3.4	450	15	11491	413	11	11265	395
						1954	9	12191	3.4	411	9	11191	408	7	11724	411
						1955	5	12202	3.6	436	5	11780	421	5	12546	454
						1956	2	12780	3.5	437	2	12335	458			
						1957	3	11237	3.4	387	2	10535	391	2	10895	407
						1958	1	17360	3.6	620	1	13480	500			
864818	261	620	11309	3.7	414	1951	31	10833	3.6	393	22	11330	414			
						1952	98	11121	3.7	409	93	11602	427			
						1953	148	11641	3.7	428	141	11812	437	114	11318	415
						1954	126	11352	3.7	418	118	11616	427	94	11808	435
						1955	99	11804	3.6	430	94	11931	437	87	11542	427
						1956	55	12021	3.6	439	44	12152	454	15	11576	437
						1957	29	11690	3.6	420	27	11816	440	25	11941	438
						1958	26	12293	3.6	445	26	12267	464	22	12224	461
						1959	6	12022	3.6	430	6	12290	474	3	12840	458
						1960	2	12630	3.5	448	2	12955	481	2	14050	519
865322	73	172	11707	3.5	408	1952	17	12121	3.5	420	14	12151	431			
						1953	37	12177	3.5	422	34	11835	426	26	11978	432
						1954	31	11784	3.4	404	31	11102	393	26	11834	421
						1955	29	11356	3.5	400	24	11174	402	22	11436	410
						1956	19	12631	3.6	451	18	11884	428	9	12685	459
						1957	20	12815	3.6	458	18	12998	473	18	12697	466
						1958	15	12798	3.5	450	13	13277	477	8	13599	492
						1959	6	13678	3.6	495	6	13612	471	5	14573	521
865323	99	158	11704	3.8	447	1954	22	11358	3.9	444	20	12688	466	18	12096	456



TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIAL NO.	DAUGHTERS NO.	RECORDOS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDOS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1955	39	11393	3.9	440	32	12275	458	30	11973	448
						1956	35	11954	3.8	456	22	11626	448	21	12058	447
						1957	28	12596	3.9	486	22	12926	492	22	12761	488
						1958	22	12330	3.8	468	21	12345	459	17	12305	462
						1959	11	11677	3.8	450	11	12034	448	9	12665	464
						1960	1	14840	3.4	508	1	12120	458	1	12775	458
865325	68	105	12467	3.8	468	1955	24	12537	3.7	461	23	12078	436	24	12086	443
						1956	29	12540	3.7	467	20	12665	469	5	10680	390
						1957	22	12523	3.9	484	18	12773	479	14	12536	464
						1958	22	12913	3.7	480	20	13431	494	16	12907	481
						1959	8	13040	3.8	494	8	12618	450	8	13580	497
866063	193	553	11087	3.6	402	1949	1	13470	3.0	409						
						1950	52	11107	3.6	404	31	11930	433			
						1951	100	10886	3.7	403	67	11546	423			
						1952	111	11405	3.6	413	102	11841	430			
						1953	89	11490	3.6	416	87	11625	432	72	11422	416
						1954	70	11409	3.7	415	68	11704	426	63	11825	430
						1955	52	11357	3.5	401	50	11833	428	47	11476	417
						1956	24	11068	3.5	393	17	12026	441	8	12177	441
						1957	18	11535	3.6	410	15	12209	448	13	12153	443
						1958	13	11502	3.6	412	12	11347	438	9	12272	448
						1959	3	11703	3.5	407	3	13420	490	3	13516	480
868738	45	93	10713	3.6	386	1951	5	10794	3.6	386	4	12070	437			
						1952	21	10423	3.7	381	20	10574	380			
						1953	27	10688	3.5	374	26	10270	373	22	10517	386
						1954	17	11779	3.6	426	17	10599	392	15	11154	404
						1955	9	11352	3.5	390	8	11088	392	8	10554	372
						1956	4	10868	3.7	399	3	11333	415	3	11155	404
						1957	3	10527	3.5	374	2	11785	458	2	10916	390
						1958	4	11545	3.7	423	4	10995	400	3	10892	390
						1959	3	8430	3.7	313	3	11723	416	3	12299	442
868927	2	4	12519	3.6	456	1953	1	12900	3.6	494	1	11640	444			
						1954	1	12500	3.5	443	1	10860	394	1	13560	502
						1956	1	10950	3.2	351	1	10790	401	1	11445	415
						1959	1	12920	3.7	482	1	10760	411			
869473	1	1	7630	3.7	281	1953	1	7630	3.7	281	1	10720	381	1	10301	363
869946	1	1	8670	3.6	312	1957	1	8670	3.6	312						
870736	144	341	11563	3.8	432	1950	2	11895	3.5	423	1	15310	547			
						1951	34	11314	3.7	422	24	12155	442			
						1952	58	11614	3.8	445	53	12194	452			
						1953	87	11760	3.7	437	83	11375	435	64	11586	425
						1954	59	11562	3.6	434	55	11823	437	54	11780	432
						1955	38	11868	3.7	441	37	11966	438	36	11772	436
						1956	25	11900	3.9	454	19	12811	468	10	12667	470
						1957	14	12534	3.9	493	13	13426	497	12	12983	486
						1958	16	11977	3.8	456	16	13761	492	13	13233	485
						1959	7	13089	4.0	516	5	13876	514	6	13107	486
						1960	1	9410	3.2	306	1	7900	305	1	11140	409
871203	7	13	10805	3.6	386	1952	2	9665	3.8	321	2	13420	472			
						1953	2	10585	3.6	378	2	13895	506			
						1954	2	11020	3.6	394	2	14090	469	2	13320	474
						1955	4	11505	3.6	412	4	13038	454	4	11925	421
						1957	2	12100	3.6	432	2	12795	468	2	12590	464
						1959	1	12050	3.5	416	1	14340	521	1	13483	486
871207	15	27	10823	3.5	370	1947	5	8352	3.5	296						
						1948	9	11763	3.4	400						
						1949	9	11434	3.4	384						
						1950	2	9430	3.7	343						
						1951	1	12430	3.2	404	1	12460	435			
						1952	1	14610	3.3	482	1	10500	377			
871953	24	78	10645	3.7	386	1950	6	10350	3.7	385	2	12330	437			
						1951	10	10553	3.7	387	10	10557	379			
						1952	14	9827	3.7	354	13	10653	375			
						1953	14	9932	3.7	362	13	10338	370	13	10758	386
						1954	14	10064	3.7	372	14	10997	397	14	10840	389
						1955	7	10790	3.7	398	7	11366	422	7	11417	418
						1956	5	10948	3.5	387	5	11304	412	4	10859	389
						1957	3	11427	3.8	429	3	10990	400	3	11249	404
						1958	3	13983	3.5	491	3	13533	509			
						1959	2	10410	3.5	359	2	12730	463	2	13059	483
872234	39	114	12234	3.3	408	1949	6	11905	3.3	392	3	13390	465			
						1950	20	12199	3.4	412	14	11568	425			
						1951	18	12262	3.3	407	14	10926	399			
						1952	18	12663	3.4	433	17	11059	410			
						1953	20	13202	3.3	441	20	11209	402	14	11311	403
						1954	12	12581	3.3	422	12	11299	409	11	11734	427
						1955	8	12424	3.3	410	8	12185	434	7	11650	412
						1956	6	13750	3.3	452	6	12167	450	3	12255	432
						1957	2	15960	3.4	548	2	12970	456	1	12611	432
						1958	3	12830	3.3	418	3	12905	455	3	12321	451



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.					
HOLSTEIN																					
872945	31	49	12043	3.5	420	1959	1	12530	3.1	394	1	12420	487								
						1952	4	12126	3.4	406	4	12760	435								
						1953	8	12139	3.5	427	8	13290	473	6	13093	463					
						1954	7	12461	3.5	453	7	11733	417	2	13794	507					
						1955	10	11991	3.4	410	10	11898	433	8	11960	424					
						1956	7	13613	3.4	472	4	13988	501	4	14794	529					
						1957	6	12698	3.6	459	6	14277	522	6	13623	498					
						1958	2	11070	3.8	415	2	12155	420	2	12165	425					
						1959	4	10750	3.4	373	4	11748	419	3	12866	474					
						1960	1	14030	3.4	472	1	15280	573	1	14312	534					
873311	57	89	12443	3.5	436	1955	11	13172	3.6	475	11	12405	452	8	12133	439					
						1956	24	12619	3.6	448	16	12021	438	5	11184	408					
						1957	23	12176	3.5	431	18	11601	420	14	11696	417					
						1958	16	12066	3.5	422	16	12674	454	14	12554	446					
						1959	12	11454	3.4	390	12	11962	419	7	12204	441					
						1960	3	13397	3.5	463	3	13317	502	2	14121	536					
873324	15	27	10846	3.8	404	1951	2	9745	4.1	391	1	11830	444								
						1952	5	11180	4.0	441	4	12890	462								
						1953	5	13034	3.4	444	5	13058	467	3	13407	478					
						1954	6	9553	3.7	351	5	12064	434	4	11372	431					
						1955	4	11770	3.6	415	4	11870	434	4	11464	411					
						1956	2	13350	3.7	492	1	15930	553	1	16078	579					
						1957	2	14085	3.6	503	1	10900	414	1	12677	473					
						1958	1	11070	4.2	470	1	13410	462	1	13821	491					
873706	24	85	11424	3.6	412	1947	4	9573	3.6	340	1	9900	344								
						1948	13	11759	3.5	415	3	10200	390								
						1949	17	11956	3.6	433	10	10910	406								
						1950	11	13029	3.6	470	7	12871	468								
						1951	10	12268	3.7	445	9	12261	427								
						1952	5	13170	3.7	483	5	9916	365								
						1953	9	12757	3.8	480	7	11206	389	2	11930	427					
						1954	9	12563	3.6	453	8	11683	427	5	11877	421					
						1955	3	11970	3.8	447	3	11813	428	3	11928	434					
						1956	1	12240	3.6	436	1	14990	575	1	13113	480					
						1957	2	13560	3.5	468	1	12350	482	2	12366	463					
						1958	1	6850	4.0	276	1	11090	378	1	10192	364					
874103	35	73	11558	3.5	407	1951	2	7370	3.7	273	2	8110	345								
						1952	7	10017	3.7	373	7	10236	374								
						1953	12	11402	3.6	408	12	11036	399	9	10172	367					
						1954	14	11831	3.6	420	14	11836	417	12	11486	404					
						1955	15	11586	3.5	404	13	10939	389	14	10698	384					
						1956	9	12114	3.5	423	9	11494	410	3	11376	417					
						1957	7	12790	3.6	457	3	11827	420	1	13211	485					
						1958	4	14273	3.4	478	4	13233	465	3	13247	470					
						1959	1	6220	3.5	205	1	10920	373	1	11107	388					
						1960	2	13980	3.4	476	2	12475	442	2	11990	429					
						874106	32	55	11082	3.9	424	1953	5	8484	4.1	344	5	10614	366	3	10021
1954	12	10727	3.7	394	12							10893	389	9	10777	383					
1955	9	11513	3.7	430	9							10747	388	7	10688	389					
1956	8	11378	3.9	445	6							12513	450	3	11776	408					
1957	10	11513	3.8	437	8							12374	449	4	11246	421					
1958	8	13240	3.8	501	7							13244	485	3	12597	455					
1959	2	11060	4.4	482	2							12410	449	2	14176	515					
1960	1	9690	3.7	360	1							10190	362	1	10573	363					
876022	47	126	10025	3.5	349							1947	9	8436	3.7	303					
						1948	15	10437	3.6	370	4	10730	364								
						1949	26	10196	3.5	354	8	11189	385								
						1950	28	10174	3.6	363	11	10615	375								
						1951	11	9546	3.6	348	8	10499	369								
						1952	8	10059	3.5	353	7	10817	377								
						1953	10	10524	3.5	370	9	10313	354	6	10096	360					
						1954	7	9043	3.4	311	7	10484	349	7	10827	367					
						1955	6	10328	3.5	362	5	10348	351	5	10095	347					
						1956	4	10378	3.5	373	3	10660	377	3	10123	358					
						1957	1	11800	3.2	373	1	11090	397	1	11412	415					
						1958	1	12600	4.1	513	1	12910	488								
877488	1	2	10090	4.0	398	1952	1	9290	4.1	383	1	9940	389								
						1954	1	10690	3.6	413	1	10410	359								
877495	4	11	12395	3.8	475	1952	2	12070	3.7	448	2	11330	395								
						1953	2	12795	3.9	497	2	11935	419	2	12127	440					
						1954	2	12885	4.0	514	2	11230	404	2	11380	413					
						1955	2	11915	4.1	495	2	10685	411	2	10791	399					
						1958	1	12430	3.5	439	1	10600	368	1	10613	375					
						1959	1	10500	3.8	394	1	9470	336	1	11772	407					
						1960	1	12070	3.6	432	1	10810	394	1	10617	374					
877600	477	1113	12231	3.5	421	1948	12	12395	3.4	415	5	10033	347								
						1949	56	12620	3.4	431	19	12228	428								
						1950	79	12209	3.4	409	39	11890	409								
						1951	88	11791	3.5	409	62	11409	399								
						1952	147	11968	3.4	408	129	11814	408								
						1953	161	12126	3.4	417	154	12067	419	118	11355	391					
						1954	176	12383	3.5	429	162	12170	431	150	12168	430					
						1955	122	12133	3.5	421	111	12297	440	101	12205	437					
						1956	74	12146	3.5	420	54	12466	451	9	11386	412					
						1957	61	12496	3.5	434	57	12446	459	61	12444	455					

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
878259	67	132	11552	3.7	425	1958	86	13090	3.5	454	83	13503	487	50	13053	474						
						1959	46	13243	3.5	463	45	12574	467	35	13385	478						
						1960	5	13180	3.5	464	5	13148	472	3	14352	503						
						1953	1	17320	3.6	620	1	13490	515	1	12938	477						
						1954	30	11635	3.8	440	30	11734	423	26	12169	438						
						1955	34	10806	3.6	391	33	11025	390	28	11860	425						
						1956	22	12261	3.6	437	19	12359	438	5	13436	477						
						1957	16	12129	3.8	453	14	12164	446	9	11916	437						
						1958	19	13151	3.7	489	18	12745	462	9	12507	447						
1959	10	12234	3.6	441	9	11524	416	7	11976	428												
878276	1	1	2300	3.6	82	1958	1	2300	3.6	82	1	14180	471	1	13756	485						
878520	22	33	12976	3.6	460	1954	4	11945	3.8	433	3	12113	445	3	12295	442						
						1955	12	12586	3.7	458	9	11567	452	9	12195	465						
						1956	8	12174	3.6	433	4	11845	446	5	11774	451						
						1957	2	14435	4.0	574	2	12260	473	2	11925	467						
						1958	3	12223	3.4	421	3	12470	466	3	11547	443						
						1959	4	14965	3.8	565	4	13265	506	3	14006	526						
878665	247	497	11944	3.7	437	1952	26	12177	3.6	440	24	12412	455									
						1953	82	12297	3.7	454	74	12048	447	59	11419	416						
						1954	123	11490	3.7	424	107	11845	435	97	12008	444						
						1955	102	12110	3.7	446	89	12412	455	82	12029	444						
						1956	53	12048	3.8	452	40	12161	454	17	12462	461						
						1957	44	12457	3.6	453	37	13051	478	35	12731	475						
						1958	43	13147	3.6	472	43	13596	504	28	13111	487						
						1959	21	12179	3.5	431	21	13118	484	19	13631	492						
						1960	3	13127	3.6	470	3	13050	495	3	12204	463						
						877934	26	46	10541	3.6	378	1952	2	11860	3.7	441	2	11130	396			
1953	16	11014	3.6	389	16							10967	392	14	10368	379						
1954	16	10312	3.6	369	15							10495	377	14	10898	367						
1955	9	10909	3.6	397	9							11380	412	9	10999	398						
1956	1	10500	3.7	384	1							11810	387	1	13189	461						
1957	1	10710	3.6	381	1							11160	397	1	11412	415						
1958	1	10110	3.7	398	1							11530	426	1	10856	392						
1959																						
880000	33	73	12459	3.5	440	1950	1	9170	3.3	300	1	9370	323									
						1951	2	8615	3.5	303	2	10780	374									
						1952	3	10013	3.4	341	3	10330	358									
						1953	5	10486	3.7	388	5	11254	384	5	11051	379						
						1954	10	11578	3.6	411	10	11144	396	9	11037	367						
						1955	8	11840	3.4	391	8	11568	402	8	10333	367						
						1956	12	13214	3.5	457	9	12461	444									
						1957	8	12086	3.7	444	7	11810	430	7	11834	419						
						1958	16	13291	3.6	473	15	12392	436	14	12578	447						
						1959	8	13134	3.3	442	8	13238	470	6	12673	451						
						880210	191	474	11102	3.9	426	1951	1	10220	4.0	406						
												1952	57	11311	3.9	435	53	11675	432			
												1953	113	11250	3.9	439	108	11716	430	84	11463	417
1954	101	10737	3.9	414	95							11605	422	79	11777	431						
1955	79	11131	3.8	426	75							12080	439	67	11626	429						
1956	41	11737	3.7	438	32							12065	438	6	11998	439						
1957	43	11413	3.6	438	32							13083	492	28	12393	463						
1958	26	12032	3.7	444	24							12813	475	16	12540	465						
1959	11	11461	3.7	423	11							12695	458	9	13013	475						
1960	2	11445	3.7	416	2							10340	380	2	11952	419						
881761	1	1	13840	3.0	417	1948	1	13840	3.0	417												
882276	1	4	10266	3.7	384	1949	1	10910	3.6	390	1	11410	438									
						1950	1	11700	4.2	492	1	12030	400									
						1951	1	9460	3.7	346	1	10680	382									
						1952	1	9000	3.4	306	1	11920	430									
882931	119	166	13501	3.4	463	1955	7	12431	3.4	418	7	11591	419	7	11588	412						
						1956	24	12598	3.5	443	20	11396	417	5	11574	419						
						1957	40	13102	3.4	449	34	12659	454	32	12361	445						
						1958	61	13899	3.4	475	60	12755	455	40	12589	462						
						1959	30	14243	3.4	485	28	13010	470	26	13184	476						
						1960	4	11958	3.5	421	4	11218	407	4	12546	454						
882939	183	420	12045	3.7	442	1951	4	14300	3.7	520	3	12290	424									
						1952	36	12641	3.7	471	33	11971	421									
						1953	85	12311	3.7	454	82	11752	416	53	11281	407						
						1954	87	11296	3.7	413	84	11209	400	70	11596	412						
						1955	72	11864	3.7	436	71	11596	415	66	11854	422						
						1956	55	12163	3.8	456	43	11965	426	15	11678	419						
						1957	37	12509	3.8	466	32	12825	459	31	12181	440						
						1958	28	13610	3.7	499	28	13290	474	21	12701	458						
						1959	16	13257	3.7	491	16	12134	432	11	12974	464						
884249	115	239	11764	3.6	424	1953	30	11503	3.7	423	30	12567	445	25	11583	404						
						1954	54	11089	3.6	402	52	11869	426	45	11712	416						
						1955	40	11767	3.6	420	35	11856	419	32	11494	408						
						1956	27	11394	3.6	410	23	12419	454	8	11192	409						
						1957	35	12007	3.6	438	28	12402	452	28	11744	422						
						1958	35	13465	3.5	472	35	13075	475	24	12519	455						
						1959	17	13156	3.5	459	16	12846	470	13	12250	474						
						1960	1	13000	3.4	442	1	11750	439	1	12470	448						
						884652	2	5	11550	3.6	407	1948	1	12160	3.4	413						
1951	1	10440	3.7	384	1							9700	348									
1952	1	10010	3.8	380	1							11680	397									
1953	1	12630	3.6	450	1							11510	417	1	7957	359						



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	20	12525	3.3	410	16	12360	446	15	12022	431
						1958	16	11416	3.3	375	15	12423	440	8	12370	448
						1959	8	11235	3.5	386	8	12003	458	7	13594	479
894060	24	59	11163	3.4	382	1948	5	10514	3.2	339	1	12010	399			
						1949	8	12594	3.4	433	2	14285	512			
						1950	8	12019	3.3	395	4	11918	425			
						1951	8	11384	3.5	400	6	12442	435			
						1952	7	11607	3.5	406	7	12300	425			
						1953	8	10506	3.5	370	8	11871	419	7	11962	416
						1954	8	10759	3.6	384	8	11076	397	7	11087	401
						1955	3	12723	3.4	428	3	12223	431	3	12477	447
						1956	2	12980	3.8	490	2	13680	509			
						1958	1	13760	3.6	489	1	12660	433	1	12851	459
						1959	1	13080	4.0	523	1	14580	494	1	13342	487
894515	77	243	12268	3.4	422	1947	10	12045	3.5	420	4	14128	507			
						1948	48	12363	3.4	420	12	12252	437			
						1949	45	12590	3.4	431	14	13439	470			
						1950	40	11535	3.4	394	15	12531	444			
						1951	26	12322	3.5	428	15	12731	450			
						1952	20	12825	3.4	437	18	12511	436			
						1953	14	12887	3.5	451	14	12921	453	8	13323	474
						1954	19	12770	3.5	447	19	12729	456	18	13257	472
						1955	9	12160	3.7	450	9	13681	489	9	13701	488
						1956	5	11230	3.7	413	5	12826	458	3	12099	432
						1957	4	10995	3.9	426	4	13520	499	4	12649	454
						1958	2	11410	4.0	447	2	13035	468	2	13140	464
						1959	1	13530	3.4	462	1	14400	532	1	14257	541
894536	10	14	14745	3.8	557	1956	2	13030	4.0	526	2	12780	472	2	13037	484
						1957	8	14354	3.8	538	8	12789	505	5	12372	456
						1958	3	17560	3.7	653	3	14817	607	3	13919	533
						1959	1	14900	3.8	568	1	9450	374	1	10998	425
894806	61	91	12096	3.7	442	1952	1	10360	3.0	309						
						1954	1	10630	3.5	372						
						1955	6	11505	3.9	438	6	11855	434	5	11534	419
						1956	10	10766	3.5	379	7	10800	391	1	9200	340
						1957	18	12379	3.6	446	15	12361	447	9	12047	447
						1958	33	12894	3.6	460	31	12933	466	22	11959	433
						1959	22	12009	3.7	449	21	12206	443	12	12867	464
895906	1	1	16590	4.0	655	1958	1	16590	4.0	655	1	13380	540	1	13941	552
895911	5	9	11786	3.8	432	1955	1	16860	3.7	620	1	15020	555	1	13919	510
						1956	1	18670	3.6	680	1	14520	523			
						1957	1	12490	3.9	481	1	14050	522	1	15107	556
						1958	6	10258	3.9	384	5	14578	552	5	12862	480
895914	286	601	11684	3.4	392	1951	18	11723	3.4	401	13	11486	398			
						1952	104	11879	3.3	398	93	12022	420			
						1953	137	12043	3.3	403	130	12593	433	107	11682	406
						1954	133	11473	3.4	386	126	12046	426	109	11927	418
						1955	87	11358	3.4	388	79	12137	435	77	11887	423
						1956	44	11821	3.4	402	40	12133	438	6	11914	429
						1957	27	12019	3.4	412	26	12715	460	22	12154	441
						1958	38	12898	3.3	425	38	13599	489	23	13304	476
						1959	13	12043	3.5	416	12	12298	456	12	13301	480
897452	3	3	12143	3.7	439	1958	2	10865	3.9	414	2	14975	569	2	13805	520
						1959	1	14700	3.5	490	1	15780	564	1	14486	523
897864	26	78	11401	3.4	393	1948	4	10160	3.3	337						
						1949	17	10902	3.5	382	2	13170	455			
						1950	21	11644	3.4	402	7	12753	454			
						1951	8	12278	3.4	416	6	11708	417			
						1952	8	12765	3.5	449	6	13035	461			
						1953	4	14463	3.3	477	4	12360	451			
						1954	6	12208	3.4	414	6	12477	449	4	12612	449
						1955	3	12530	3.2	398	3	11927	415	2	11903	416
						1956	3	11790	3.3	391	3	12587	459			
						1957	3	11343	3.5	401	3	12870	475	3	12045	445
						1959	1	11780	3.6	428	1	12990	476	1	11794	443
900274	26	33	12786	3.9	490	1958	7	12094	3.9	463	7	13076	483	5	12860	471
						1959	22	12619	3.9	483	22	12434	459	17	12992	448
						1960	4	13905	4.1	562	4	12308	481	4	13059	496
901114	1	2	10400	3.7	383	1956	1	10390	3.7	384	1	10520	384	1	15680	435
						1957	1	10410	3.7	382	1	9450	354			
901196	26	40	11820	3.8	451	1953	2	10975	3.6	392	2	12545	447	2	12721	456
						1954	6	11197	3.7	416	6	11905	435	3	12492	448
						1955	7	13170	3.8	501	7	14031	509	6	12726	461
						1956	10	11852	3.9	460	7	12607	469	6	12382	464
						1957	11	11747	4.0	465	9	13193	487	9	12852	483
						1958	3	13543	3.8	500	3	12413	453	3	12637	474
						1959	1	13750	3.7	508	1	12180	436			
902551	78	220	11433	3.7	417	1949	3	12413	3.7	459	3	11827	404			
						1950	18	11579	3.7	428	9	13146	476			
						1951	34	11680	3.7	425	27	11806	428			



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.					
HOLSTEIN																					
903193	109	165	11633	3.7	427	1952	46	11523	3.6	419	43	11209	406								
						1953	28	11548	3.7	426	28	11177	412	19	11417	419					
						1954	33	11639	3.7	420	32	11150	405	27	11547	424					
						1955	20	10595	3.7	390	20	11474	414	19	11383	412					
						1956	15	10863	3.7	397	14	11634	417	5	11042	410					
						1957	11	11485	3.8	433	7	12304	429	8	11643	421					
						1958	7	13543	3.5	471	7	12256	441	7	12107	438					
						1959	5	12540	3.3	421	5	11858	430	5	13648	496					
903212	109	201	12157	3.5	429	1954	6	11207	3.5	387	6	11477	411	5	12829	446					
						1955	25	10606	3.7	395	24	11368	414	22	11692	423					
						1956	26	11059	3.7	413	17	11806	430	16	12295	443					
						1957	27	11600	3.7	428	23	12183	444	21	11426	415					
						1958	44	12800	3.6	466	43	12715	460	38	12553	458					
						1959	34	11444	3.8	429	34	12694	459	27	12875	470					
						1960	3	9460	3.8	352	3	10500	376	3	10751	403					
						903631	6	9	11973	3.7	439	1952	4	11868	3.5	409	4	11203	389		
1953	18	11506	3.6	409	18							11532	412	9	11777	406					
1954	32	11497	3.5	400	31							11234	398	27	11588	413					
1955	34	12239	3.5	433	34							12056	436	30	11866	425					
1956	27	11947	3.6	427	21							12556	457	11	12728	459					
1957	34	12691	3.5	446	30							12840	460	24	12650	458					
1958	36	13913	3.6	493	35							13452	479	22	13612	494					
1959	14	12307	3.6	440	14							12759	462	12	13370	484					
903887	121	293	11666	3.5	411	1960	2	12850	3.5	453	2	15380	447	2	13184	460					
						1953	1	13010	3.7	478	1	10920	392	1	11042	386					
						1954	2	9155	3.4	310	1	10960	382								
						1955	1	15630	3.9	615	1	14550	524								
						1956	1	17520	3.7	636	1	16550	595	1	15107	540					
						1957	1	17330	3.6	632	1	16380	573	1	17178	621					
						1958	1	9670	3.7	355	1	9400	344								
						1959	2	13190	3.9	500	2	13960	511	1	14344	518					
904220	67	89	12568	3.8	471	1947	19	11435	3.5	401	5	12670	484								
						1948	13	13748	3.5	459	8	14519	512								
						1949	11	13985	3.5	461	7	13989	490								
						1950	19	12978	3.5	430	14	11965	421								
						1951	27	12504	3.4	417	25	11417	391								
						1952	32	11678	3.3	382	30	11462	391								
						1953	27	12309	3.5	430	27	11559	411	23	11614	398					
						1954	28	12095	3.5	423	28	11541	411	25	11936	421					
						1955	32	11713	3.6	416	32	11476	411	28	10939	377					
						1956	36	11707	3.6	424	33	11865	428	8	11302	419					
						1957	25	11632	3.7	427	25	11642	435	24	11770	451					
						1958	17	12401	3.6	452	17	12593	457	17	11823	435					
						1959	7	12151	3.7	442	7	14370	527	3	15065	481					
904819	47	80	11446	3.8	436	1957	15	12668	3.8	456	14	13803	514	11	13319	496					
						1958	37	12274	3.7	456	37	12979	479	34	12656	467					
						1959	32	12927	3.8	483	31	13104	493	29	13552	500					
						1960	5	14438	3.7	535	5	12546	482	5	13010	491					
904864	1	1	5840	4.0	234	1954	14	9533	3.9	363	12	10875	387	11	10577	373					
						1955	16	10393	3.8	398	14	11073	394	12	10864	419					
						1956	16	12046	3.8	450	11	11613	437	7	11596	428					
						1957	15	12785	3.8	480	11	12595	447	11	11772	427					
						1958	13	13382	3.9	520	13	13476	490	9	13017	480					
						1959	8	13244	3.9	511	8	12333	452	6	13180	491					
905404	29	56	11712	3.6	424	1953	1	5840	4.0	234	1	8400	300								
						1951	1	8770	4.0	347	1	10060	347								
						1952	3	13690	3.5	485	1	15600	457								
						1953	6	12208	3.7	446	4	13073	453	4	12639	448					
						1954	14	11589	3.6	415	10	12072	418	4	10949	393					
						1955	9	13112	3.7	480	6	12440	452	6	11997	450					
						1956	10	12539	3.4	430	3	14040	513	3	13734	495					
						1957	7	12660	3.9	486	4	12560	457	5	11979	456					
						1958	3	12440	3.9	492	3	14030	526	3	13134	478					
						1959	2	11625	3.8	437	2	12310	427	1	13625	481					
						1960	1	10700	3.2	342	1	12270	412	1	12023	401					
						905694	110	200	11513	3.6	417	1952	6	10378	3.8	393	6	10858	380		
1953	27	10777	3.7	397	27							11214	404	21	11230	399					
1954	39	11584	3.6	412	36							11926	418	34	11533	405					
1955	37	11398	3.7	415	36							11599	411	36	11386	410					
1956	32	11962	3.7	459	27							11733	434	19	13028	470					
1957	17	12349	3.7	454	16							12859	465	16	12953	469					
1958	30	12921	3.7	471	29							12552	457	23	12172	447					
1959	11	12378	3.5	437	11							12632	454	11	12618	457					
906000	102	191	11559	3.8	433	1960	1	6740	3.7	247	1	10020	356	1	10573	363					
						1953	10	13381	3.7	496	10	12914	453	8	13133	468					
						1954	37	10949	3.9	420	37	11485	416	34	11526	415					
						1955	39	11202	3.8	424	37	12155	446	34	12043	440					
						1956	29	11482	3.8	432	25	11960	447	6	11948	449					
						1957	28	11219	3.0	421	26	12388	458	23	11650	426					
						1958	35	12080	3.7	451	35	12547	459	26	12559	463					
						1959	12	11791	3.8	450	12	12741	461	10	13402	493					
						1960	1	7200	4.1	293	1	11780	426	1	11434	426					
						908807	2	2	15195	3.4	521	1951	1	14280	3.5	503					
												1958	1	16110	3.3	539	1	16510	611	1	14116
						908810	160	292	11769	3.7	432	1951	5	12740	3.6	466	4	12430	429		



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1952	8	12524	3.6	460	7	12236	433			
						1953	24	12538	3.7	461	23	12511	443	11	12014	455
						1954	43	11417	3.7	418	41	11693	421	33	11755	420
						1955	47	11724	3.7	435	44	12323	442	40	12198	439
						1956	47	11670	3.7	430	38	11935	435	9	12222	439
						1957	44	11885	3.7	438	41	11822	427	36	12562	452
						1958	48	13022	3.7	473	48	12975	470	24	12051	433
						1959	25	11716	3.6	423	24	12105	435	19	12868	473
						1960	1	10940	3.5	381	1	12220	477	1	11445	443
909363	21	39	10699	3.6	379	1952	5	11926	3.6	432	3	9973	354			
						1953	8	10561	3.6	380	7	9700	339	6	10244	357
						1954	7	9357	3.6	334	6	10218	373	5	9873	352
						1955	9	9822	3.4	336	9	9504	346	5	10067	391
						1956	4	11378	3.6	407	3	11677	409	3	10900	421
						1957	4	13128	3.7	472	2	14955	555	2	14072	500
						1958	1	10740	3.4	363	1	13050	462	1	12557	470
						1959	1	17400	3.4	600	1	16160	565			
910029	1	2	15530	3.7	579	1953	1	14160	3.7	531	1	14700	592	1	13767	525
						1954	1	16900	3.7	626	1	14140	569	1	13069	524
910290	102	175	12660	3.6	452	1951	5	11486	3.5	396	3	11750	427			
						1952	16	11733	3.6	415	13	11340	413			
						1953	23	12142	3.6	437	21	12182	442	10	11593	421
						1954	18	11394	3.5	400	17	11131	398	14	10476	381
						1955	15	10569	3.6	378	14	11231	410	14	11110	401
						1956	17	12327	3.7	457	12	12074	433	3	13872	514
						1957	17	12565	3.7	459	14	12384	446	13	11660	424
						1958	24	12888	3.6	465	22	12810	464	15	12534	458
						1959	32	13546	3.6	480	32	13154	470	20	13786	494
						1960	8	13536	3.5	472	6	13113	463	5	13760	497
910333	2	3	11883	3.3	384	1953	1	13090	3.6	477	1	11530	437	1	11619	439
						1954	1	9100	2.9	260	1	10770	394	1	11096	420
						1959	1	12670	3.2	401	1	10590	399	1	12470	462
910630	129	202	12254	3.9	480	1954	20	11134	3.8	426	19	11761	436	17	12406	455
						1955	32	11080	4.0	443	27	12151	462	24	11847	447
						1956	26	12016	4.0	474	18	13270	505	14	12706	502
						1957	52	12817	3.9	498	49	13067	497	43	12758	479
						1958	42	13043	3.9	513	40	13426	501	28	12982	489
						1959	26	13342	4.0	527	25	13128	493	18	13394	501
						1960	4	12290	4.0	492	2	13435	525	2	12977	498
910828	27	54	11706	3.5	411	1951	2	8670	3.5	297	2	8525	300			
						1952	7	11716	3.6	419	7	11146	407			
						1953	9	10860	3.6	389	9	12458	444	9	11569	432
						1954	13	12532	3.5	443	13	11842	425	9	11826	430
						1955	14	11509	3.5	407	13	12322	443	11	11597	418
						1956	6	13035	3.5	458	3	13187	483	2	13413	474
						1957	2	12805	3.6	455	2	12595	506	2	11522	473
						1959	1	13880	3.2	438	1	12110	441			
910991	109	114	13384	3.7	499	1958	8	12825	3.6	460	8	12631	470	4	12631	463
						1959	79	13644	3.8	511	79	13563	505	60	13837	514
						1960	27	12748	3.7	471	26	12728	472	26	12764	478
911488	5	7	12399	3.5	436	1951	1	11750	3.7	432	1	11990	403			
						1952	1	12750	3.4	432	1	12110	430			
						1954	1	15220	3.3	495	1	11850	432			
						1955	1	13370	3.3	438	1	10990	422	1	12077	479
						1958	1	11950	3.7	441	1	14520	531	1	13494	481
						1959	1	10950	3.6	395	1	12780	497	1	13451	507
						1960	1	12550	3.5	444	1	13930	522			
912280	27	60	9837	3.8	376	1952	4	9203	3.6	331	2	10300	378			
						1953	18	9771	3.7	363	16	11161	395	13	10560	384
						1954	15	9669	3.6	367	13	10375	377	11	10989	392
						1955	10	9783	4.1	398	9	11409	404	10	10823	430
						1956	7	9864	3.9	389	4	11993	442	4	11794	430
						1957	3	9843	3.9	387	2	13145	488	2	12770	468
						1958	3	10907	3.9	428	3	12813	448	3	11983	432
913356	7	11	11983	3.5	421	1957	1	8320	3.2	269	1	12890	477	1	12121	437
						1958	4	11208	3.4	383	4	12358	440	2	11489	411
						1959	5	13498	3.8	499	5	13332	489	4	13241	486
						1960	1	17290	3.3	574	1	14220	509	1	13451	484
914050	181	338	12076	3.6	431	1952	12	13293	3.5	461	11	11993	429			
						1953	39	11734	3.6	417	39	11722	418	17	11223	408
						1954	75	11982	3.5	422	73	11737	418	56	11850	426
						1955	61	12137	3.6	432	56	11614	418	53	11919	426
						1956	42	12508	3.6	450	36	12443	450	14	12532	453
						1957	55	12650	3.6	459	45	12705	463	39	12408	456
						1958	29	12879	3.6	468	28	12663	453	21	12774	465
						1959	22	12626	3.6	461	22	12745	460	17	13232	481
						1960	3	16193	3.5	562	2	13825	466	3	15137	521
915811	1	1	15390	3.5	546	1958	1	15390	3.5	546	1	14250	521	1	12742	468
916270	8	19	10975	3.6	386	1949	5	11233	3.7	411						
						1950	4	7305	3.5	258	1	8770	323			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1952	3	12540	3.5	439	3	11887	414			
						1953	4	12618	3.5	441	4	12155	400	4	11756	402
						1954	3	13980	3.3	458	3	14783	484	3	14955	495
						1955	2	12145	3.7	439	2	15070	515	2	13483	457
916471	272	460	12174	3.6	442	1951	1	11300	3.9	436	1	11240	415			
						1952	18	11403	3.7	417	16	10557	370			
						1953	31	11388	3.7	415	28	10361	361	23	10401	379
						1954	51	11073	3.6	399	49	11007	394	45	11150	400
						1955	50	11892	3.6	433	46	11193	405	41	11244	412
						1956	48	12538	3.6	452	33	11760	430	26	11848	424
						1957	51	13299	3.5	471	45	12349	438	41	12134	437
						1958	113	12589	3.6	453	113	12320	449	80	12197	445
						1959	85	12446	3.7	463	83	12074	444	68	12568	459
						1960	12	11072	3.7	406	9	10749	388	11	11344	422
919608	37	77	12110	3.7	444	1952	1	11200	4.1	457	1	9660	334			
						1953	3	9890	3.9	580	2	12070	442	2	10595	574
						1954	16	11743	3.7	433	16	11533	424	12	11754	425
						1955	16	12871	3.6	461	16	11065	406	14	11689	423
						1956	13	12029	3.6	437	11	11578	419	3	10664	380
						1957	15	12410	3.6	450	14	12413	447	12	12175	439
						1958	9	13661	3.5	487	9	12500	453	6	12506	461
						1959	3	15100	3.6	541	3	14913	537	3	14152	508
						1960	1	14840	3.8	571	1	14840	513	1	13244	459
920541	30	63	11600	3.8	436	1953	1	8080	3.9	515	1	10690	382			
						1954	12	10841	4.1	444	12	10878	398	7	11286	409
						1955	14	10466	3.9	407	12	12125	447	10	10974	400
						1956	5	12030	3.9	467	4	11728	420			
						1957	8	12653	3.6	459	6	13152	469	4	12843	477
						1958	14	13164	3.7	480	14	13336	477	6	12290	452
						1959	9	12177	3.7	454	9	12899	470	8	12563	458
920632	148	227	11785	3.5	411	1951	4	12795	3.6	455						
						1952	4	12663	3.6	456	1	12020	441			
						1953	7	10634	3.4	362	6	11523	421	1	11085	409
						1954	12	11277	3.6	409	12	11926	421	9	11913	424
						1955	23	11156	3.4	383	23	12230	444	19	12007	429
						1956	26	11208	3.5	395	20	11789	429	6	11505	410
						1957	36	11507	3.5	400	26	12732	459	24	11992	435
						1958	58	12714	3.5	444	55	12845	464	38	12327	448
						1959	45	12142	3.5	425	44	12692	458	33	12886	464
						1960	12	11585	3.5	406	11	12545	449	9	12797	464
921070	24	24	12354	3.5	436	1959	17	12734	3.5	448	17	12509	449	9	12682	465
						1960	7	11130	3.6	408	6	12462	437	6	12016	442
922420	16	20	12028	3.9	465	1954	1	12240	4.2	516	1	12290	444	1	12164	440
						1955	4	9853	4.0	390	4	8670	300	3	9494	357
						1956	4	13448	4.0	527	3	11273	442	2	12072	455
						1957	3	11610	3.6	416	3	12867	476	3	11848	450
						1958	4	13695	3.8	518	4	12335	439	4	11426	406
						1959	3	10547	3.8	404	3	12613	458	1	13625	481
						1960	1	14680	3.4	499	1	10950	372	1	11369	391
923129	25	33	12029	3.7	444	1952	1	13670	3.6	486						
						1953	1	15420	3.6	553						
						1954	1	13630	3.7	507						
						1955	4	11730	3.7	426	3	12393	439	3	11928	450
						1956	6	11848	3.7	435	2	13375	497			
						1957	8	11880	3.7	430	8	11916	442	7	11680	452
						1958	9	11620	3.9	454	9	12502	463	6	12424	481
						1959	3	12823	3.6	461	3	13037	473			
923209	24	35	8559	3.9	331	1953	5	8826	4.0	351	5	9648	370	3	10602	460
						1954	14	8486	3.9	326	14	9718	359	14	10239	366
						1955	6	8560	3.8	322	6	10642	366	5	10431	379
						1956	6	8863	3.8	329	1	10750	373	1	9025	352
						1957	2	9455	3.9	372	1	10920	403	1	9418	355
						1958	2	11125	3.6	398	2	10925	406	1	10551	378
923318	3	5	13157	4.2	541	1955	1	7360	4.4	323	1	14530	575	1	12917	514
						1956	1	14880	4.0	598	1	13000	536			
						1957	1	16140	4.2	675	1	13410	552	1	13102	532
						1958	1	15990	3.9	623	1	15160	608	1	13701	559
						1959	1	17520	4.3	761	1	16000	655	1	13647	574
923749	35	69	11938	3.9	465	1948	1	14430	3.9	569	1	12300	465			
						1949	4	10518	4.0	414	1	11770	454			
						1950	3	8463	3.8	320	3	11620	427			
						1951	5	11782	3.8	452	4	11265	416			
						1952	3	9267	4.1	391	3	10833	388			
						1953	5	11862	3.9	465	5	10294	372	2	11108	412
						1954	4	11070	4.0	440	4	11663	410	2	12034	445
						1955	11	12107	3.8	457	10	11477	413	9	11410	410
						1956	8	11401	4.1	460	4	10978	378	1	11227	388
						1957	11	11960	3.9	464	11	11653	451	11	12150	447
						1958	6	12035	4.0	472	6	12177	450	4	12353	453
						1959	4	12888	3.8	487	4	12340	453	3	12190	449
						1960	4	14140	3.8	529	4	13420	499	1	13472	502
923750	16	33	12377	3.6	442	1948	1	12730	4.1	517	1	13490	532			
						1949	3	11993	3.5	428	1	15470	556			
						1950	1	11176	4.0	443	1	11010	383			
						1951	3	12893	3.7	478	3	12563	458			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1952	2	12550	3.6	442	2	12065	434			
						1953	3	13003	3.6	467	3	12517	453	3	12858	467
						1954	5	12778	3.5	441	4	11128	400	4	11491	406
						1955	1	6220	3.4	209	1	10780	360	1	11827	400
						1957	3	14570	3.6	538	1	11820	408	1	12709	457
						1958	8	12053	3.7	443	8	12513	461	7	11735	439
						1959	3	12767	3.6	457	3	12213	437	3	12586	464
924097	227	401	12620	3.6	450	1952	1	6400	3.6	242						
						1953	22	12143	3.7	443	19	12147	443	8	11761	419
						1954	61	11696	3.6	414	60	11599	417	47	12037	432
						1955	75	12156	3.6	436	71	11853	427	67	11766	423
						1956	59	12591	3.6	455	49	12042	436	9	12684	453
						1957	69	13433	3.6	478	62	12752	455	55	12308	446
						1958	68	14377	3.6	517	68	12969	466	51	12918	458
						1959	36	12615	3.6	450	34	11818	419	26	12973	464
						1960	10	12494	3.4	421	10	12629	445	7	12722	456
924105	80	113	12874	3.5	454	1949	1	15500	3.7	581						
						1950	1	10710	4.0	432						
						1951	1	13410	3.7	494						
						1956	12	11641	3.5	400	7	11976	432			
						1957	26	12518	3.6	446	22	12621	459	19	12092	436
						1958	40	13233	3.5	460	40	12754	454	22	12631	454
						1959	29	13601	3.6	486	29	12648	449	18	13086	472
						1960	3	12303	3.3	406	3	12130	440	3	12110	457
924257	75	115	11369	3.8	425	1953	6	9425	3.7	350	6	10767	388	6	10971	367
						1954	19	10537	3.8	404	19	10481	383	19	10876	366
						1955	17	11319	3.7	421	16	10609	379	15	10869	390
						1956	18	10705	3.8	399	16	12265	446	10	11465	419
						1957	19	11861	3.9	458	14	13639	470	8	11554	420
						1958	25	12746	3.8	477	23	12236	455	12	12340	461
						1959	11	10793	3.8	413	10	11174	412	8	12046	453
925144	54	95	11877	3.6	427	1953	5	12968	3.7	473	5	11528	408	5	10375	353
						1954	11	13975	3.6	502	11	12463	431	8	12832	446
						1955	15	12357	3.6	441	14	12427	439	12	11680	411
						1956	17	11829	3.6	427	14	11965	418	1	12655	434
						1957	19	10323	3.6	373	17	12611	437	17	11614	416
						1958	19	12259	3.5	429	19	12166	433	18	11735	422
						1959	9	13387	3.7	492	9	12624	459	9	13820	512
925394	24	39	11328	3.8	423	1953	1	7640	3.9	296	1	11550	426	1	12230	440
						1954	1	7960	3.8	302	1	10380	370	1	12045	434
						1955	3	8403	3.8	321	1	11590	438	1	11500	413
						1956	2	9080	3.6	343	1	11600	436			
						1957	6	12416	3.7	458	6	12403	446	5	11729	430
						1958	16	12493	3.7	464	15	12445	441	10	12158	436
						1959	9	11184	3.8	425	9	12307	428	8	12072	433
						1960	1	12330	3.5	435	1	12540	429	1	11467	406
925396	190	359	11844	3.7	432	1952	41	12730	3.6	464	40	11857	410			
						1953	68	12898	3.7	470	67	12316	432	56	12046	413
						1954	83	11667	3.7	430	81	12237	436	70	12289	436
						1955	68	11399	3.7	415	65	11957	421	59	12071	427
						1956	27	12273	3.7	456	22	12690	452	11	12043	430
						1957	25	11422	3.7	417	22	12578	460	21	12390	451
						1958	31	11539	3.6	421	30	13119	473	10	12041	437
						1959	14	11850	3.7	433	14	12579	456	13	13130	467
						1960	2	13815	3.5	446	2	12260	479	1	14105	525
925549	1	1	14690	3.6	522	1957	1	14690	3.6	522	1	13020	443	1	13135	467
926593	1	1	12850	3.6	464	1958	1	12850	3.6	464	1	13380	499	1	10704	414
927472	15	38	10988	3.6	399	1949	4	11458	3.7	429	2	13145	487			
						1950	5	11836	3.7	442	3	13780	470			
						1951	5	11276	3.8	432	3	13597	504			
						1952	5	10764	3.7	394	5	11446	413			
						1953	6	10898	3.7	402	5	11502	406	4	11099	399
						1954	9	12010	3.6	426	9	11928	413	5	11800	426
						1955	3	12880	3.5	422	3	11817	410	3	12197	415
						1956	1	13000	3.8	490						
930692	192	289	12468	3.6	451	1954	7	12533	3.6	448	7	11631	417	6	12116	447
						1955	28	11812	3.7	434	27	12179	442	21	12262	440
						1956	32	11646	3.6	420	30	12346	444	9	11468	403
						1957	56	12113	3.6	429	53	12207	441	37	12264	445
						1958	93	13215	3.6	479	92	13074	473	54	11895	432
						1959	67	12398	3.6	449	66	12506	455	52	12949	471
						1960	6	12836	3.8	483	6	13792	486	3	13356	474
932078	28	53	11847	3.6	425	1954	7	11809	3.5	406	7	10544	376	6	11111	396
						1955	14	10940	3.6	396	13	10432	381	13	10371	372
						1956	9	11539	3.7	424	7	10866	405	7	11230	407
						1957	8	12395	3.6	438	7	11630	409	7	11103	397
						1958	9	12213	3.6	432	7	11729	434	5	11698	417
						1959	6	13175	3.4	446	6	12588	462	5	12808	462
932370	3	8	12493	3.4	427	1952	1	10860	3.3	359						
						1953	1	10720	3.2	341						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
932377	15	22	12542	3.5	436	1954	1	10770	3.7	400	1	9970	338		1	9657	319					
						1955	1	15150	3.3	493	1	10990	361	1	8567	306						
						1956	1	16400	3.3	546	1	12050	430									
						1957	2	13355	3.5	470	2	12470	469	2	11205	397						
						1958	1	12760	3.6	454	1	12240	417	1	11096	401						
						1952	1	10440	3.5	361												
						1954	3	10697	3.5	375	3	10863	381	3	11140	384						
						1955	3	11660	3.6	421	3	11197	396	3	10086	367						
						1957	5	12772	3.4	437	5	11786	422	5	11814	423						
						1958	8	12881	3.5	450	7	11834	433	7	11506	418						
1959	2	11240	3.8	419	2	11780	440	2	12470	470												
933029	1	1	15720	3.5	548	1950	1	15720	3.5	548												
933199	141	222	11626	3.6	419	1952	1	12050	3.2	382	1	12960	457									
						1953	20	11770	3.7	429	19	12490	430									
						1954	28	11505	3.6	410	26	12365	442	17	11871	408						
						1955	23	11124	3.5	387	20	12070	433	22	12293	434						
						1956	27	11562	3.5	411	23	12417	452	20	11985	425						
						1957	33	11998	3.7	440	31	12408	449	7	11676	419						
						1958	60	11996	3.6	431	59	12716	457	27	12460	450						
						1959	29	11393	3.7	416	28	12724	464	20	12200	438						
						1960	1	9660	3.6	346	1	11490	380	26	13156	474						
						933201	3	4	11218	3.9	433	1957	1	15490	3.6	555						
1959	2	9155	4.1	374	1	9230	356	2	9979	423												
1960	1	8640	3.7	320	1	9300	399	1	9450	408												
933212	164	233	12356	3.7	456	1955	8	12016	3.8	454	7	11419	416	6	12682	454						
						1956	21	11472	3.7	429	18	12454	458	3	11641	432						
						1957	47	12112	3.7	452	43	12977	472	34	12559	461						
						1958	78	13085	3.6	475	74	12906	464	51	12357	452						
						1959	69	12646	3.7	467	66	13061	472	60	13416	485						
						1960	10	12167	3.7	448	8	13205	479	10	13187	481						
						1954	5	12122	3.7	452	4	12675	478	3	13443	523						
						1955	9	12290	3.7	453	6	12413	455	5	12304	466						
						1956	8	11731	3.7	436	2	11515	471	2	11140	416						
						1957	6	11848	3.8	444	5	11746	452	5	11297	418						
1958	5	13174	3.8	504	5	12458	465	5	12989	482												
1959	7	13919	3.7	521	7	13423	501	5	14318	536												
934021	206	321	12751	3.7	465	1954	9	12436	3.6	448	9	12793	470	8	13327	488						
						1955	53	11680	3.6	424	51	12207	444	44	12292	453						
						1956	63	12635	3.7	468	48	12823	473	10	12220	437						
						1957	77	12624	3.7	465	61	12795	477	47	12587	463						
						1958	77	13830	3.6	499	72	13136	480	58	13013	479						
						1959	40	13167	3.6	473	37	12756	476	36	13274	486						
						1960	2	11665	4.1	472	1	10140	373	1	10617	402						
						1952	1	9120	3.6	326												
						936716	1	1	9120	3.6	326	1952	1	9120	3.6	326						
						937171	35	57	12859	3.4	439	1954	5	13158	3.3	436	5	12588	446	5	12095	432
1955	16	11308	3.5	393	14							10467	384	14	10908	397						
1956	11	13039	3.5	456	9							11973	429	6	12397	448						
1957	11	13272	3.4	451	9							12046	434	7	11320	408						
1958	8	16213	3.4	556	8							13278	488	8	12686	462						
1959	6	13570	3.5	476	6							11720	427	2	12601	437						
1956	1	13180	3.5	461	1							14300	581									
1957	1	10230	3.4	347	1							11510	444									
938770	197	294	12958	3.5	456							1953	2	14370	3.6	517	2	13000	463	2	10998	389
1954	20	12092	3.4	413	20							12405	443	17	12786	462						
1955	42	12213	3.5	429	41	11540	414	39	11409	408												
1956	39	12359	3.5	436	31	11981	425	11	11748	426												
1957	55	13138	3.6	474	52	12377	444	50	11833	426												
1958	67	13263	3.5	467	65	12940	465	48	12388	451												
1959	59	13357	3.5	468	59	12641	455	41	13248	476												
1960	10	13893	3.4	476	10	13253	476	9	13725	493												
939182	17	25	12189	3.5	423	1953	3	11700	3.6	415	3	12420	470	3	12459	451						
						1954	2	11820	3.3	385	2	9945	364	1	10780	412						
						1955	7	11890	3.5	408	6	12817	466	4	13614	496						
						1956	6	13712	3.4	472	1	12970	477									
						1957	3	11953	3.6	431	2	12030	457	2	12568	482						
						1958	3	12787	3.6	459	3	12920	476	2	12939	467						
						1959	1	13060	3.3	433	1	14010	460									
						1952	1	13930	3.6	501	1	13250	511									
						1953	5	12412	3.8	472	5	13100	506									
						1954	7	13564	4.0	537	7	13517	536	4	11532	479						
939595	8	21	13420	3.9	522	1955	3	13057	3.8	500	3	12720	503	1	12851	509						
						1956	4	14170	3.9	557	4	13228	511									
						1957	1	14350	3.9	558	1	14120	514									
						1948	3	10170	3.2	325												
						1949	4	12863	3.5	448												
						1950	1	12740	3.8	485	1	11680	405									
						1951	9	10604	3.5	370	5	11360	396									
						1952	5	10804	3.6	390	5	11658	401									
						1953	8	11229	3.6	396	8	10593	386	3	9901	360						
						1954	5	10736	3.4	360	5	10767	407	1	10148	367						
940354	21	37	11157	3.5	383	1948	3	10170	3.2	325												
						1949	4	12863	3.5	448												
						1950	1	12740	3.8	485	1	11680	405									
						1951	9	10604	3.5	370	5	11360	396									
						1952	5	10804	3.6	390	5	11658	401									
						1953	8	11229	3.6	396	8	10593	386	3	9901	360						
						1954	5	10736	3.4	360	5	10767	407	1	10148	367						
						1955	3	13057	3.8	500	3	12720	503	1	12851	509						
						1956	4	14170	3.9	557	4	13228	511									
						1957	1	14350	3.9	558	1	14120	514									



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR					305-DAY AVERAGE BY SIRE BY FRESHENING YEAR					YEARLY AVERAGE BY SIRE							
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.						
						1955	HOLSTEIN				1	12070	454	1	6943	346						
						2	9553	3.6	345													
941567	77	165	11228	3.7	415	1952	3	12043	3.6	437	3	11483	406									
						1953	20	11230	3.7	413	20	11922	430	18	11716	416						
						1954	39	10718	3.8	403	39	11613	414	31	11678	423						
						1955	32	11233	3.7	417	32	11526	416	28	11370	407						
						1956	23	11420	3.7	421	18	11951	429	4	12282	459						
						1957	19	12108	3.6	435	18	13134	480	14	12309	450						
						1958	19	12164	3.6	439	18	13117	479	16	13030	475						
						1959	9	11801	3.6	425	9	11886	430	6	12653	466						
						1960	1	12970	3.0	386				1	12502	470						
						941780	2	2	12220	3.4	415	1954	1	13110	3.4	384	1	12310	459	1	12197	483
1955	1	13130	3.4	445																		
941809	266	678	11456	3.5	396	1948	5	12340	3.5	425	1	10450	372									
						1949	40	12182	3.6	430	15	13271	443									
						1950	89	11146	3.5	386	45	12003	408	8	12239	433						
						1951	116	11164	3.5	388	71	11533	395									
						1952	111	11440	3.5	401	98	11880	409									
						1953	98	12097	3.5	418	93	12134	423	75	11522	397						
						1954	93	11637	3.5	409	83	12149	428	76	11816	415						
						1955	55	11765	3.4	404	46	12497	440	48	12049	425						
						1956	25	11863	3.3	395	20	12106	439	4	13516	491						
						1957	19	12334	3.4	426	17	12723	463	17	12357	438						
						1958	20	11574	3.4	397	20	12488	444	16	12311	437						
						1959	7	12270	3.4	426	7	11850	429	6	12893	475						
						943293	2	6	12239	3.5	425	1953	1	9840	3.7	362	1	13040	506	1	12034	443
												1955	1	14300	3.7	528	1	14720	570	1	11554	434
1957	1	13140	3.8	476	1							11840	438	1	10584	400						
1958	2	13350	3.5	475	2							13715	499	1	12524	480						
1959	1	10330	3.4	355	1							12310	469									
943749	204	321	12802	3.7	477	1954	12	12096	3.7	451	11	12422	467	11	12867	483						
						1955	67	12345	3.8	462	65	12076	438	61	12091	443						
						1956	58	12619	3.7	468	46	12357	446	8	12239	433						
						1957	66	12823	3.8	482	57	12484	463	44	13116	486						
						1958	77	14144	3.7	529	76	13075	484	59	13003	482						
						1959	37	12250	3.7	449	37	12703	470	28	13133	485						
						1960	4	12210	3.7	447	4	11620	439	3	12975	492						
						943799	561	895	11804	3.7	439	1953	15	12307	3.8	465	15	12688	455	11	12164	435
1954	70	11103	3.7	412	70							11777	421	65	11906	424						
1955	105	11308	3.7	422	103							12129	435	89	12001	428						
1956	115	11491	3.7	429	92							12501	451	26	11368	404						
1957	160	11952	3.8	449	146							12703	456	117	12128	439						
1958	231	12476	3.7	464	228							13077	470	158	12581	460						
1959	181	12220	3.7	454	178							12799	459	144	13131	475						
1960	18	11871	3.7	431	17							12179	429	14	12505	449						
944849	5	10	13239	3.7	481							1954	1	13110	3.4	441	1	13760	441	1	13701	488
						1955	4	13613	3.8	508	4	12790	484	2	10470	414						
						1956	3	14467	3.6	523	1	10560	407	1	8731	350						
						1957	1	13140	3.7	487	1	12280	463	1	13135	502						
						1958	1	14660	3.5	516	1	13410	479									
945462	48	115	9962	3.6	357	1952	14	10426	3.7	388	14	12044	437									
						1953	18	9702	3.6	351	17	11772	426	7	12435	456						
						1954	24	9900	3.5	350	24	11989	424	20	12160	433						
						1955	22	10237	3.5	360	22	11885	426	18	11664	421						
						1956	10	9780	3.6	341	8	12679	449	3	13123	459						
						1957	17	10464	3.6	373	15	13402	474	16	12961	466						
						1958	6	10702	3.6	377	6	13318	472	6	13338	477						
						1959	4	10303	3.8	387	4	14143	509	4	13843	500						
						946132	101	217	11103	3.6	394	1950	6	12052	3.4	414	2	12840	434			
1951	46	10607	3.7	387	34							11767	415									
1952	45	11006	3.6	394	43							11629	401									
1953	37	11716	3.5	414	35							12023	420	29	11444	397						
1954	36	10978	3.7	400	34							12131	432	29	12180	429						
1955	21	11176	3.5	392	18							12085	425	17	11573	407						
1956	14	10661	3.6	381	12							11809	421	1	11271	387						
1957	5	11360	3.8	420	5							11780	424	4	11846	445						
1958	5	14384	3.3	476	5							13406	487	3	14232	514						
1959	2	13475	3.5	465	2							13090	475	1	12175	431						
946406	113	172	11753	3.7	436	1952	3	10613	3.5	369												
						1953	1	12730	3.7	466												
						1954	2	11895	3.7	436												
						1955	15	11461	3.6	414	14	11546	417	13	11294	397						
						1956	25	11236	3.7	420	19	12189	441	3	10980	391						
						1957	42	11565	3.7	425	41	12154	437	35	12218	440						
						1958	63	12670	3.7	471	63	12944	467	44	12358	446						
						1959	19	11447	3.8	432	16	12670	466	11	13543	473						
						1960	2	13075	3.8	483	2	12460	430	2	12448	457						
						946873	25	30	12300	3.6	436	1957	1	13200	4.0	527	1	13720	589			
1958	15	13268	3.5	464	15							13483	486	13	12896	456						
1959	13	10737	3.7	394	13							11620	415	12	11980	431						
1960	1	12420	3.0	369	1							13270	437	1	12884	478						



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
948138	98	311	12998	3.4	443	1949	10	12779	3.4	439	7	12327	425			
						1950	37	12530	3.5	434	25	11588	405			
						1951	42	12760	3.4	437	36	11779	408			
						1952	39	12859	3.3	427	37	11720	403			
						1953	45	13274	3.4	448	45	11909	416	20	12293	430
						1954	46	12423	3.5	431	44	11857	422	35	11891	410
						1955	34	13191	3.5	455	33	12117	429	33	12392	441
						1956	14	14091	3.4	486	12	12348	441	5	14345	512
						1957	23	15476	3.3	514	22	13433	483	22	13353	479
						1958	19	16533	3.4	558	19	14794	536	18	14120	505
						1959	2	16470	3.5	574	2	15290	542	2	15920	575
948424	12	28	12378	3.7	464	1951	1	11330	4.1	470	1	13450	461			
						1953	4	12133	3.8	457	4	12520	465	4	12933	479
						1954	7	11959	3.7	441	6	12620	477	5	12409	466
						1955	5	11194	3.6	400	4	12760	466	4	12909	477
						1956	4	12420	4.1	501	4	13783	507	3	13512	488
						1957	4	12908	3.9	505	3	12763	491	3	11950	456
						1958	2	14595	4.0	576	2	13550	487	2	13805	506
						1959	1	13570	3.7	505	1	14660	518	1	15118	522
						1949	1	16880	3.5	592	1	13880	459			
949041	9	14	11280	3.5	397	1950	3	12173	3.7	438	1	12890	469			
						1951	3	11270	3.5	389	2	10890	397			
						1952	1	9100	2.9	267	1	9400	398			
						1953	3	12630	3.6	445	3	12150	434	1	13908	501
						1955	1	13150	3.7	483	1	11310	378	1	12077	429
						1956	1	9840	3.3	325						
						1957	1	10600	3.8	402	1	9140	320	1	9930	376
						1953	3	13353	3.3	443	3	12653	461	3	10838	372
						1954	5	13242	3.3	440	5	13118	473	4	12696	451
949156	91	140	11879	3.5	421	1955	23	11557	3.5	403	23	11915	424	22	11397	415
						1956	18	12354	3.5	427	16	12237	442	4	12255	438
						1957	31	11954	3.6	426	30	12058	442	26	11837	428
						1958	37	12303	3.5	435	36	12914	468	35	12519	457
						1959	21	10980	3.6	397	20	12489	451	16	13023	474
						1960	2	15155	3.5	335	2	14620	506	2	15500	554
						1956	1	12520	3.4	430	1	11520	419	1	11412	407
						1957	7	13609	3.5	478	5	12758	482	6	12116	463
						1958	19	12939	3.4	442	19	12862	465	15	12678	450
1959	7	11259	3.4	382	7	12267	437	5	14072	495						
949223	30	36	13439	3.5	465	1957	11	12575	3.5	433	11	12610	448	9	11440	416
						1958	12	13818	3.6	491	12	14252	506	12	12628	458
						1959	12	13971	3.4	473	12	13960	484	12	13551	483
						1960	1	18270	3.6	654	1	14720	478	1	15652	547
949233	2	2	12205	3.4	407	1957	1	6570	3.4	226	1	11570	406	1	12045	439
						1959	1	17840	3.3	587	1	12270	418	1	12186	444
949576	1	4	8420	4.1	344	1955	2	7130	4.2	301	2	10725	377	2	10181	372
						1956	1	8980	4.1	366						
						1959	1	10440	3.9	409						
950295	17	30	12272	3.7	456	1954	5	11502	3.5	402	5	10870	397	4	10693	376
						1955	8	10184	3.8	390	8	11418	420	8	11132	419
						1956	7	12937	3.9	503	7	12656	483	1	11554	431
						1957	2	14045	3.9	543	2	11985	442	2	11914	447
						1958	5	14332	3.5	505	5	14400	546	4	14492	559
						1959	3	14493	3.7	535	3	14173	540	2	14514	542
950648	249	589	12481	3.4	426	1950	10	12249	3.3	407	6	11968	413			
						1951	57	12547	3.4	421	43	11587	404			
						1952	96	12316	3.4	416	88	11872	413			
						1953	91	13216	3.4	445	87	12560	439	72	11784	407
						1954	89	12290	3.4	422	85	11717	418	77	11976	424
						1955	57	11936	3.4	406	50	11916	420	47	11756	417
						1956	43	12296	3.5	425	39	12266	444	3	11616	425
						1957	46	12871	3.4	442	42	12967	472	42	12749	460
						1958	61	14005	3.4	479	61	13670	492	46	12989	467
						1959	36	13107	3.4	439	36	13188	476	27	13220	490
						1960	3	11900	3.5	414	2	11315	390	1	12731	446
950707	64	85	12468	3.8	472	1955	3	12317	3.7	452	3	12203	428	2	12007	409
						1956	15	12819	3.8	494	10	13567	503	9	12590	463
						1957	23	12123	3.8	451	22	13218	493	20	12693	473
						1958	25	12281	3.8	471	23	13345	503	17	12577	472
						1959	16	12584	3.8	472	15	12879	486	14	13162	483
						1960	3	12800	3.7	481	2	12465	448	1	11554	403
952029	82	116	12906	3.7	469	1955	1	10190	4.2	432	1	9460	394	1	10693	450
						1956	20	12488	3.6	449	15	12045	430	3	12412	442
						1957	38	12958	3.7	473	35	12754	479	30	12737	475
						1958	39	13181	3.6	474	39	13003	478	33	12551	467
						1959	15	13395	3.7	485	15	12785	475	15	13735	503
						1960	3	14483	3.7	536	3	12520	452	3	12640	471
952437	29	47	11557	3.8	435	1954	8	9696	3.9	373	6	11527	413	6	11625	425
						1955	9	10938	3.8	420	7	12990	462	7	10892	421
						1956	11	10918	3.9	427	6	12705	479	7	11359	441

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	9	13061	3.9	506	7	13157	496	8	12205	475
						1958	5	13348	3.7	480	5	12740	484	4	11279	435
						1959	4	13233	3.8	494	4	12065	444	2	11391	443
						1960	1	8640	3.6	325	1	15440	496	1	12927	447
952603	110	172	13066	3.4	448	1955	27	12306	3.5	428	22	12016	432	19	12121	428
						1956	40	12562	3.4	431	30	12399	448	4	11996	444
						1957	31	13015	3.4	447	29	12970	470	27	12539	453
						1958	47	13984	3.5	480	47	13341	481	22	12626	453
						1959	24	13228	3.5	459	24	12985	468	18	13794	494
						1960	3	12077	3.6	429	3	13917	500	2	13544	491
954382	1	4	13958	3.2	451	1954	1	12880	3.3	420	1	10380	356	1	10758	383
						1955	1	15450	3.0	467	1	8760	513			
						1957	1	14490	3.4	495	1	11420	408	1	10246	356
						1958	1	13010	3.2	422	1	12460	432	1	10747	383
954677	40	54	12244	3.6	437	1957	1	15796	3.5	551	1	12520	417	1	12502	433
						1958	17	12156	3.7	448	17	11640	429	12	11390	419
						1959	30	12233	3.6	434	29	11665	423	24	12260	443
						1960	6	11177	3.4	383	5	11148	383	4	10641	399
955493	256	454	11836	3.7	440	1952	10	10854	3.8	419	10	12234	435			
						1953	30	11866	3.8	454	29	11965	432	22	11979	430
						1954	71	11478	3.8	429	70	11860	423	57	12295	446
						1955	74	11528	3.7	430	62	11649	421	58	11630	421
						1956	64	11721	3.7	437	51	11841	425	15	11591	420
						1957	73	11890	3.7	442	65	12783	464	58	12273	445
						1958	89	12456	3.7	462	86	12893	470	67	12762	468
						1959	38	12676	3.7	466	38	12896	466	31	13476	492
						1960	5	9616	3.8	367	4	12473	431	3	13563	478
959465	3	5	11827	3.6	425	1954	1	14740	3.4	497	1	10970	390	1	10519	367
						1955	2	11755	3.6	419	2	9550	335	2	10181	370
						1956	2	10490	3.9	401	2	11450	423	1	10322	396
959466	177	314	12914	3.7	474	1952	2	13380	4.1	539	2	11200	423			
						1953	29	12306	3.7	457	27	11594	424	17	11884	421
						1954	60	12980	3.7	480	58	12103	437	45	12288	445
						1955	37	12519	3.6	455	27	11864	433	21	12587	449
						1956	40	13353	3.7	488	28	12714	462	7	12338	443
						1957	42	12655	3.6	459	37	12562	458	31	12522	456
						1958	65	13528	3.7	493	65	13171	481	36	12853	466
						1959	39	12556	3.7	461	39	12814	467	31	13498	494
965039	34	47	11156	4.1	460	1953	1	14680	3.7	538						
						1955	13	10836	4.1	445	7	11769	443	5	11061	396
						1956	13	11484	4.1	476	7	10936	406	7	11331	421
						1957	4	10268	4.0	412	3	12690	475	3	11739	443
						1958	8	10675	4.4	470	8	12340	474	5	12893	500
						1959	8	12038	4.2	509	8	12164	463	6	12717	492
968544	62	78	12204	3.9	479	1957	9	13628	4.0	539	9	14121	537	3	13443	504
						1958	40	12395	4.0	489	40	13020	492	29	12567	474
						1959	25	11725	3.9	465	24	12874	470	23	13128	481
						1960	4	11966	3.6	432	4	12283	459	3	13440	504
968786	180	238	12181	3.6	436	1953	1	11850	3.2	381	1	12070	422			
						1954	14	11794	3.5	414	14	11991	426	11	11814	424
						1955	18	11432	3.7	418	17	12080	458	14	11558	414
						1956	23	11382	3.5	401	14	11807	419	2	11015	387
						1957	34	12539	3.5	443	28	12440	453	22	11701	431
						1958	70	12662	3.6	451	69	13257	473	48	12434	453
						1959	69	12491	3.6	452	67	12737	457	52	13424	484
						1960	9	12031	3.7	436	9	12351	459	8	12556	464
968796	1	1	12600	4.2	525	1959	1	12600	4.2	523	1	16680	609	1	14933	548
969667	106	155	11993	3.8	456	1952	1	10370	4.1	429	1	11460	442			
						1953	3	9637	3.8	371	3	11260	410	3	10584	383
						1954	13	10525	3.8	404	13	11757	431	12	11864	431
						1955	30	11243	3.8	427	27	11555	409	25	11330	412
						1956	25	12210	3.7	453	18	11408	428	5	11377	399
						1957	23	13303	3.8	509	21	12869	480	19	12089	445
						1958	42	12918	3.9	500	41	13318	484	33	12702	468
						1959	17	12788	3.7	478	17	13134	480	15	12928	471
						1960	1	16200	3.7	594	1	15090	517	1	13603	505
969669	87	142	11835	3.7	438	1952	2	11085	4.1	454	2	10610	391			
						1953	5	10956	3.8	409	5	11554	430	5	11369	411
						1954	21	12083	3.7	445	20	11561	413	18	11128	404
						1955	20	11309	3.7	412	16	11676	431	15	11772	428
						1956	25	10887	3.8	415	19	11988	452	2	11445	433
						1957	20	12589	3.9	484	20	12193	455	20	12423	462
						1958	34	11871	3.7	432	32	12553	456	28	12252	450
						1959	14	13239	3.7	475	14	12898	460	11	12792	465
						1960	1	11610	3.5	412	1	8940	506	1	9407	320
969671	101	161	12175	3.8	462	1952	2	11530	4.3	486	2	12295	463			
						1953	7	12366	3.8	467	7	12387	461	6	11718	425
						1954	32	11435	3.6	428	31	11724	414	27	11391	408
						1955	32	11738	3.8	448	29	11503	418	28	11336	417
						1956	25	12074	3.9	465	18	12295	444	10	12080	456

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
971338	2	4	9802	3.5	338	1957	14	13005	3.8	496	10	12532	454	8	11647	423
						1958	30	12668	3.8	481	30	12648	461	22	11958	459
						1959	18	12487	3.8	470	18	12155	437	11	11684	423
						1960	1	15130	4.0	605	1	13530	507	1	14246	534
						1953	2	10040	3.5	347	2	7665	292	2	8257	319
972097	2	3	10173	3.6	363	1954	1	11190	3.4	383	1	9860	366	1	9429	350
						1955	1	9700	3.3	320	1	9600	345	1	10039	367
						1956	1	6730	3.7	247	1	11790	426	1	10987	392
972712	46	65	11906	3.5	413	1958	1	15560	3.5	546	1	13090	460	1	11554	412
						1959	1	11670	3.5	409	1	13260	469	1	12993	453
						1953	6	12798	3.3	419	6	11597	412	6	11371	386
						1954	6	12055	3.3	397	6	11455	405	5	11451	396
						1955	9	10729	3.5	371	8	11406	399	8	11415	414
973824	1	2	12245	3.7	450	1956	10	12822	3.4	440	5	10726	374			
						1957	7	9871	3.6	353	7	10667	389	6	10571	367
						1958	16	11826	3.6	427	16	12779	464	14	12287	451
						1959	11	11622	3.6	418	11	10938	394	10	12101	451
						1958	1	12260	3.8	463	1	14090	542			
975137	14	17	12181	3.7	449	1960	1	12230	3.6	437	1	11490	451	1	12622	500
						1958	6	13138	3.6	478	6	12355	459	5	11689	456
						1959	9	11417	3.7	427	9	12192	453	9	13126	485
975683	64	127	12390	3.6	440	1960	2	11590	3.9	443	2	13635	499	2	13642	477
						1952	2	12805	3.7	467	2	13070	475			
						1953	13	12067	3.6	434	13	11761	418	10	11660	408
						1954	20	12314	3.6	438	20	12109	435	15	12166	450
						1955	20	11931	3.5	415	20	12118	435	17	11610	414
976710	3	3	15393	3.1	481	1956	15	12103	3.5	423	13	12395	447	2	9990	369
						1957	13	13217	3.6	469	12	13196	473	11	12612	456
						1958	26	13150	3.6	472	26	13018	472	22	13255	485
						1959	15	13309	3.6	476	15	12804	471	13	13477	492
						1960	3	15733	3.6	569	3	13963	493	2	13260	478
976801	1	1	13300	3.9	525	1958	3	15393	3.1	481	3	14730	519	3	15151	558
						1958	1	13300	3.9	525						
						1952	7	9837	3.5	344	7	11471	412			
						1953	31	10509	3.7	384	31	11644	420	24	11219	404
						1954	28	10254	3.6	371	27	11100	407	25	11389	413
978750	109	178	10952	3.7	405	1955	29	10059	3.8	374	28	11349	413	26	11214	407
						1956	16	10696	3.7	395	13	11734	433	2	10671	398
						1957	26	11223	3.8	427	22	12041	436	18	11873	454
						1958	26	12618	3.6	457	26	12763	454	18	12516	454
						1959	14	12092	3.7	447	14	12251	442	13	13249	474
978998	1	2	13260	3.8	506	1960	1	11160	3.4	376	1	11210	398			
						1955	1	14990	4.0	592	1	12930	455			
						1958	1	11530	3.6	419	1	15040	535	1	14541	543
979087	4	4	12270	3.6	444	1956	1	13720	3.7	507	1	14160	519			
						1958	1	9510	3.6	346	1	12110	415			
						1959	1	13080	3.6	474	1	12470	459	1	14225	528
						1960	1	12770	3.5	449	1	13750	504			
						1956	4	11568	3.8	442	4	13498	503	3	11154	401
979368	16	18	12502	3.7	464	1957	6	10122	3.6	365	3	12003	434	1	11162	423
						1958	5	14652	3.8	562	5	13606	498	3	12739	489
						1959	3	13780	3.5	481	3	13863	504	2	13315	495
						1955	1	14640	3.4	491	1	13680	497	1	12688	460
						1956	21	13588	3.5	475	14	13274	482	4	11431	415
980008	147	213	14113	3.5	493	1957	37	14220	3.5	502	34	12743	466	32	12157	449
						1958	85	14850	3.5	517	83	13348	474	53	12640	462
						1959	63	13817	3.5	480	61	12640	448	55	13350	479
						1960	6	14908	3.4	508	5	11504	428	4	13734	486
						1957	1	13790	3.7	504	1	13290	479	1	10148	358
980098	1	2	13845	3.7	507	1958	1	13900	3.7	510	1	14310	533	1	11423	403
						1954	8	11656	3.6	418	8	12443	462	8	12536	466
						1955	12	11440	3.7	421	7	13134	521	6	13189	505
981308	69	99	11972	3.7	442	1956	14	11744	3.7	429	7	13754	533	5	11465	423
						1957	22	11861	3.7	435	18	12734	470	16	12379	454
						1958	24	12318	3.7	454	23	12455	466	19	12583	471
						1959	16	13232	3.7	486	15	12599	476	12	13564	497
						1960	5	14503	3.7	538	5	11870	469	3	12303	496
982049	1	1	8790	4.4	386	1958	1	8790	4.4	386	1	12920	466			
						1954	5	11136	3.8	423	5	10900	395	5	11873	454
						1955	8	11175	3.8	422	3	13330	487	3	12735	456
						1956	8	11651	3.6	421	6	13837	511	5	13887	501
						1957	4	13630	3.6	466	2	12260	477	2	12611	472
982050	19	29	11746	3.7	435	1958	3	12933	3.7	473	3	12853	478	2	12862	455
						1959	1	11590	4.2	485	1	12260	450			
						1953	1	10250	3.4	346	1	9710	335	1	9167	317
						1954	32	10703	3.7	395	31	11764	428	27	11740	433
982292	89	156	10773	3.7	401	1955	50	10429	3.7	385	45	11994	454	44	11967	439
						1956	32	10964	3.8	413	23	12257	456	6	10631	380
						1957	21	12413	3.7	462	16	13435	518	14	12841	479
						1958	13	13370	3.8	513	13	13172	504	9	13454	503
						1959	1	12260	4.30							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
						1959	HOLSTEIN				7	13647	480	6	13218	490
982552	3	6	10299	3.6	368	1952	2	10860	3.6	384	2	10710	379			
						1953	1	8490	3.4	288	1	11400	400		10181	350
						1954	1	11500	3.9	445	1	10620	366	1	9995	334
						1956	1	8040	3.4	276	1	11720	451			
						1959	1	12210	3.5	426	1	11320	390	1	9701	331
982707	9	16	9863	3.4	337	1955	6	9618	3.4	323	5	10740	385	4	11647	424
						1956	4	11443	3.4	387	3	12570	449	2	13391	473
						1957	2	9525	3.4	319	2	12050	455	2	11282	406
						1958	2	11240	3.5	390	2	13505	512	2	11898	435
						1959	2	9580	3.5	343	2	11625	445	2	11980	442
983460	30	60	11041	3.6	392	1950	2	10770	3.7	399						
						1951	9	9858	3.5	340	6	10257	349			
						1952	8	10369	3.7	378	6	12447	411			
						1953	11	12150	3.6	442	10	11840	444	1	12186	469
						1954	13	10741	3.7	392	12	11703	414	8	12058	428
						1955	6	11542	3.5	400	2	12355	449	1	11925	421
						1956	2	14845	4.0	585	1	13520	507			
						1957	5	11944	3.4	409	5	12062	434	2	14345	522
						1958	3	13827	3.4	480	3	13773	490	1	15162	541
						1959	1	13520	3.4	462	1	13980	491	1	13876	488
						1955	1	10980	3.5	384	1	9920	361	1	10998	411
						1956	4	7575	3.8	286	4	13653	490	4	11197	411
						1957	1	11700	3.7	431	1	12590	461	1	11107	408
						1958	2	14755	3.5	512	2	15130	462	1	12709	448
						1959	3	16123	3.7	599	3	15670	536	3	15285	521
984717	109	155	12396	3.7	457	1955	31	11679	3.7	427	27	12384	445	25	12274	451
						1956	35	12630	3.6	453	27	12221	441	5	12504	453
						1957	42	12283	3.7	458	38	12918	488	30	12762	479
						1958	27	13594	3.9	526	27	13338	499	23	12922	469
						1959	18	12395	3.7	456	17	12518	465	16	13627	510
						1960	2	14495	3.6	520	2	13255	464	2	13184	486
984796	53	74	11854	3.9	458	1955	5	9932	3.9	388	3	11980	457	2	10671	376
						1956	14	11668	3.8	441	2	12205	502	1	11936	464
						1957	20	12243	3.9	479	16	13065	492	16	12716	486
						1958	19	11869	3.9	464	19	12534	462	14	12238	449
						1959	13	11888	3.9	467	13	12605	470	11	12691	482
						1960	3	11097	3.5	380	3	10457	360	3	11176	383
984801	73	145	13262	3.7	484	1951	10	16099	3.8	621	8	13811	541			
						1952	12	14162	3.7	532	12	13425	516			
						1953	12	13718	3.7	503	12	12738	476	10	12447	466
						1954	16	12946	3.7	475	16	12464	478	12	12280	466
						1955	21	12606	3.6	452	18	12692	479	13	11614	426
						1956	25	13496	3.6	484	9	13197	504	10	13531	504
						1957	23	12647	3.7	469	15	13057	502	15	12571	477
						1958	14	12845	3.8	485	13	12924	486	10	12892	484
						1959	11	13115	3.6	476	11	12823	481	8	12633	477
						1960	1	15350	3.8	589	1	13630	491	1	15674	567
						1954	24	14173	3.7	528	23	12864	469	20	12950	466
						1955	70	12142	3.7	453	57	12259	440	55	12211	433
						1956	62	12502	3.7	462	45	13008	473	9	11987	433
						1957	103	12811	3.8	485	94	12794	466	84	12322	450
1958	241	13429	3.8	504	237	13422	487	118	12601	460						
1959	163	12114	3.8	455	161	12795	466	131	13250	485						
1960	10	12822	3.7	475	10	12892	459	6	13280	493						
986239	94	131	12967	3.7	481	1956	7	11316	3.7	414	3	11330	428	4	10875	396
						1957	19	12916	3.7	471	18	12564	454	17	12116	439
						1958	52	13165	3.7	490	51	12808	468	32	12277	457
						1959	46	13043	3.7	487	45	12752	462	40	13229	481
						1960	7	14011	3.7	533	7	12389	447	6	13344	481
986761	7	19	11328	3.4	386	1952	5	11658	3.5	403	4	11375	396			
						1953	5	10936	3.4	372	5	11452	390			
						1954	3	10560	3.3	348	3	11337	395	3	11416	403
						1955	2	12065	3.3	400	1	10730	382	2	10802	383
						1956	1	11690	3.2	373	1	10920	414			
						1957	2	11955	3.3	399	2	11490	424	2	10922	396
						1959	1	11550	3.7	422	1	15040	566	1	14464	529
988944	1	1	11420	3.9	441	1958	1	11420	3.9	441	1	12520	448			
988995	17	24	11523	4.0	450	1951	1	11890	3.8	456						
						1952	1	9130	4.4	403						
						1953	3	9343	4.4	405						
						1955	1	10410	4.4	458						
						1956	2	10175	4.0	393						
						1957	4	9473	4.3	400	3	13500	524	3	12237	457
						1958	2	11730	3.9	461	2	13710	508	1	12753	471
						1959	9	12358	3.9	482	9	11563	453	8	13136	487
						1960	1	12810	3.8	484	1	12560	494	1	12742	502
						990559	1	1	15520	3.5	538	1958	1	15520	3.5	538
990861	6	13	12092	3.7	447	1954	3	10837	3.6	396	2	11305	439	3	11801	444
						1955	3	9700	3.7	366				2	10955	410



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1956	1	11910	3.8	449	1	13140	502		1	12753	452
						1957	3	13290	3.7	490	3	13527	499		3	13087	493
						1958	2	12560	3.7	462	2	12295	472		2	12612	480
						1959	1	15150	3.8	569	1	14670	550		1	16797	617
990952	1	1	13440	3.4	461	1960	1	13440	3.4	461	1	9710	392		1	11881	451
992845	1	1	17490	3.8	663	1958	1	17490	3.8	663							
992848	4	5	13071	3.5	453	1955	1	13830	3.2	449	1	11530	420		1	10791	385
						1956	1	12150	3.5	431	1	10550	387		1	10497	397
						1957	1	13840	2.9	402							
						1958	1	12990	3.8	495	1	14610	548		1	12917	504
						1959	1	13310	3.4	458	1	12860	464		1	11696	410
992858	26	29	11701	3.8	445	1955	1	8650	3.8	328	1	12910	435		1	9494	342
						1957	1	5810	3.4	199					1	10410	372
						1958	12	12748	3.8	489	12	11538	459		10	11227	426
						1959	15	11627	3.8	441	15	11022	407		10	11361	455
993764	5	6	12165	3.5	428	1958	5	12162	3.5	427	5	13728	519		5	13374	506
						1959	1	13400	3.6	485	1	13620	519		1	15587	570
995940	21	44	11501	3.6	413	1951	5	10932	3.5	387	3	12587	445				
						1952	11	11076	3.7	410	7	11541	410				
						1953	7	12587	3.5	445	6	11647	418				
						1954	9	11546	3.5	400	9	12258	426		5	11318	414
						1955	5	12386	3.5	436	5	11654	417		8	11010	394
						1956	2	12115	3.5	427	2	11885	410		4	12151	455
						1957	1	17240	3.4	587	1	15460	571		1	9799	347
						1958	2	14270	3.6	508	1	15460	571		1	14661	554
						1959	2	12905	3.5	450	2	12275	436		1	10192	353
											2	12370	440		1	11107	388
996245	24	36	11519	3.7	425	1951	2	14035	4.1	577							
						1952	6	13773	3.8	514							
						1953	4	13555	3.9	532							
						1954	4	9708	3.7	362							
						1955	5	11054	3.7	404							
						1956	1	12730	3.9	496							
						1958	9	11022	3.6	399	9	11758	424		7	11870	435
						1959	5	11378	3.6	414	5	12860	459		5	13305	471
997481	52	87	11874	3.6	428	1952	5	13350	3.6	478	5	12842	466				
						1953	9	12477	3.6	453	9	12269	440		5	12228	420
						1954	16	11710	3.6	420	16	11853	427		14	11971	425
						1955	12	10913	3.6	385	11	11377	399		10	11260	399
						1956	8	11499	3.6	408	6	12193	440		2	12944	465
						1957	11	12232	3.5	424	11	11988	421		10	11794	420
						1958	16	12838	3.6	463	16	12850	456		12	12924	472
						1959	7	12823	3.7	473	7	12636	466		7	12295	459
						1960	3	11437	3.6	409	3	12470	438		2	12955	471
998194	6	12	12238	3.5	423	1950	1	13750	3.4	461	1	11420	423				
						1953	1	8330	3.2	267	1	7160	283				
						1954	1	8020	3.3	267	1	8050	256		1	11020	393
						1955	1	13800	3.1	435					1	10595	387
						1956	1	15020	2.9	441							
						1957	3	12087	3.6	435	3	12683	479		2	12737	474
						1958	3	12913	3.7	470	3	12643	468		2	12198	447
						1959	1	9210	3.8	354	1	10980	429		1	12862	487
999678	218	280	12384	3.6	449	1953	1	9330	3.9	363							
						1956	6	12987	3.5	461	3	12747	503		2	10644	429
						1957	28	11782	3.8	442	28	13055	486		26	12906	475
						1958	129	12571	3.6	456	129	13476	486		68	12654	461
						1959	103	12347	3.6	448	101	13010	476		86	13376	487
						1960	13	11985	3.6	436	10	14431	519		9	13686	507
999938	1	1	9700	3.3	316	1956	1	9700	3.3	316	1	13340	555				
1000390	166	234	13106	3.9	503	1954	1	11620	3.4	399							
						1955	2	13895	3.5	485							
						1956	13	13329	3.8	500	8	13905	508		1	13690	494
						1957	67	12643	3.9	492	59	12493	465		45	12725	470
						1958	91	13707	3.8	524	91	13038	480		71	12679	469
						1959	50	12645	3.9	498	48	12427	463		47	13324	496
						1960	10	12777	3.7	468	8	12046	448		8	12542	462
1001512	35	46	11644	3.8	435	1957	11	11107	3.9	432	11	12748	482		11	12644	467
						1958	25	11571	3.8	431	25	12773	464		19	12600	461
						1959	9	11723	3.7	431	8	12916	475		6	13716	512
						1960	1	11860	3.4	404	1	11730	413		1	13996	516
1001749	1	1	12780	3.3	419	1958	1	12780	3.3	419	1	14470	550		1	13145	440
1001768	88	92	12238	3.6	439	1958	14	12881	3.5	448	14	12671	454		11	12163	448
						1959	64	11975	3.6	432	62	12577	449		51	13160	468
						1960	14	13204	3.5	464	11	13474	492		12	14644	533
1003598	90	154	12171	3.7	450	1952	3	11287	3.9	433	3	11160	413				
						1953	7	13133	3.7	484	7	12311	447		5	12435	446



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1954	17	12262	3.8	469	17	11893	440		14	12234	448
						1955	27	12516	3.8	468	23	12283	435		21	12387	449
						1956	29	11015	3.7	410	27	12166	441		5	11166	404
						1957	40	12452	3.7	455	37	12336	453		34	12429	453
						1958	25	13182	3.7	484	24	12422	458		21	11764	438
						1959	5	10492	3.9	406	5	11972	440		5	12917	468
						1960	1	11980	3.0	363	1	8790	312		1	9679	348
1003754	2	2	9225	3.9	355	1957	1	9410	3.8	359	1	11930	423				
						1959	1	9040	3.9	350	1	7760	269				
1003988	16	41	10445	3.8	395	1951	3	11370	3.8	434	3	11150	414				
						1952	12	10787	3.8	406	10	11368	416				
						1953	10	10784	3.9	419	10	12002	432	10	11664	425	
						1954	7	10161	3.9	391	7	11463	410	6	12486	447	
						1955	5	9134	3.9	358	5	10120	374	5	10026	376	
						1956	3	11200	3.8	422	2	11515	452	1	10486	366	
						1957	1	9290	3.3	311	1	11370	427	1	12273	481	
1004137	94	135	12970	3.5	456	1955	1	14730	2.8	416	1	10120	331	1	13636	458	
						1956	20	13238	3.6	433	18	12187	445	2	12863	469	
						1957	33	12990	3.4	444	33	12286	441	22	12651	449	
						1958	50	13555	3.5	477	50	12640	461	36	12162	436	
						1959	31	13368	3.5	469	31	12415	457	24	12719	460	
1004144	251	387	12442	3.5	434	1951	7	10847	3.5	381	7	11004	396				
						1952	24	11374	3.6	403	23	11383	407				
						1953	14	12143	3.6	430	14	11829	418	11	11724	416	
						1954	24	11938	3.5	415	23	11516	416	19	11630	427	
						1955	35	11482	3.5	404	32	11673	423	28	11602	416	
						1956	30	11939	3.5	420	27	12408	452	3	11104	395	
						1957	46	12819	3.5	452	42	12710	464	35	12378	453	
						1958	88	13278	3.5	458	85	12917	465	59	12225	452	
						1959	104	12846	3.5	450	103	12890	468	80	13309	482	
						1960	15	11614	3.6	413	15	12847	457	15	12574	445	
1004232	64	69	13467	3.9	519	1958	16	13653	4.0	544	16	12816	486	11	11962	443	
						1959	49	13476	3.8	516	49	13230	492	44	13664	507	
						1960	4	12115	3.9	474	3	12727	488	4	12339	484	
1004496	44	52	12631	3.7	463	1958	23	12982	3.6	466	23	12552	451	16	12353	440	
						1959	24	12194	3.7	457	24	11733	435	22	12368	450	
						1960	5	11548	3.6	418	5	12470	458	5	11977	445	
1005212	54	105	11768	3.5	407	1952	6	11198	3.5	392	5	12936	444				
						1953	15	12317	3.5	427	15	13001	450	4	12606	455	
						1954	27	11844	3.5	411	27	11966	419	24	11781	406	
						1955	22	12007	3.5	413	14	12085	426	14	11954	429	
						1956	9	11980	3.5	419	8	12490	444	5	11805	421	
						1957	11	13443	3.5	468	10	13328	483	10	12774	456	
						1958	12	11811	3.4	402	12	12902	459	11	13077	462	
						1959	3	14030	3.5	480	3	12937	467	2	13729	500	
1005575	27	30	12872	3.6	456	1958	7	11637	3.5	408	7	13244	504	4	12609	473	
						1959	17	13193	3.6	471	16	13276	490	16	13682	505	
						1960	6	12918	3.5	453	4	13483	472	4	12494	455	
1006219	52	83	12382	3.6	440	1954	2	11350	3.8	425	2	11460	400	2	11178	389	
						1955	8	12976	3.6	462	8	12010	429	8	12395	432	
						1956	8	11860	3.4	408	4	11505	427	3	11768	420	
						1957	15	13767	3.6	487	11	13797	494	11	12739	454	
						1958	26	12317	3.6	442	26	12082	438	19	11916	429	
						1959	16	11703	3.7	427	16	11118	405	13	12237	449	
						1960	8	11114	3.5	384	8	9805	360	8	10215	362	
1006866	1	1	12260	3.4	420	1957	1	12260	3.4	420	1	12220	470	1	8578	392	
1007029	15	24	11505	3.8	431	1955	3	12063	3.7	451	3	14377	521	1	10726	370	
						1956	7	10477	3.7	389	3	13083	468	3	13618	493	
						1957	6	13465	3.7	495	5	12970	490	5	12563	467	
						1958	4	11438	3.8	432	4	12233	460	2	13642	506	
						1959	3	11803	3.9	454	3	12853	491	3	13331	505	
						1960	1	11990	4.1	494	1	13100	502	1	14214	545	
1007357	98	160	12642	3.6	452	1953	1	12630	3.8	475							
						1955	6	10455	3.5	364	6	10642	383	5	11739	415	
						1956	20	11328	3.5	393	15	11743	421	5	12721	452	
						1957	35	12294	3.5	431	31	12249	442	22	12246	439	
						1958	60	12955	3.6	460	59	12519	450	46	12078	432	
						1959	55	12821	3.6	468	34	12328	453	26	12521	453	
						1960	3	12167	3.5	431	3	12033	454	3	12880	471	
1007952	2	5	11336	3.6	409	1953	1	11340	3.8	428	1	14850	463	1	12535	423	
						1954	2	10115	3.6	365	2	11470	409	2	11570	391	
						1955	1	12600	3.2	405	1	11510	386	1	8567	366	
						1957	1	12690	3.7	466	1	12660	468	1	11205	397	
1008622	20	23	12757	3.8	486	1958	8	13373	3.7	495	7	12470	461	6	11696	431	
						1959	13	12708	3.8	488	13	12106	448	11	12872	467	
						1960	2	11150	4.0	444	2	10045	390	2	9854	383	
1008796	12	23	11377	3.9	433	1951	1	6990	3.7	260	1	9790	368				
						1952	3	12640	3.5	447	3	12637	442				
						1953	3	9727	4.4	419	2	11795	421	1	13254	460	
						1954	4	12798	3.8	470	4	11530	396	4	12423	442	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																	
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.							
HOLSTEIN																							
1010660	53	69	14008	3.7	516	1955	4	11245	3.7	404	3	10533	371		3	11427	401						
						1957	5	11964	3.9	469	5	13056	482		1	11205	433						
						1958	1	13070	3.8	501	1	13960	505										
						1959	2	11585	3.7	427	2	14755	556		1	13494	499						
						1954	2	11715	3.5	407	2	11595	408		2	10759	403						
						1955	2	13280	3.7	488	2	15905	486		1	10540	379						
						1956	2	11870	3.9	456	2	12645	447		1	11401	411						
						1957	6	13020	3.6	467	5	13750	479		5	13289	476						
						1958	17	15526	3.7	578	17	13549	508		12	13463	505						
1010936	2	2	12600	3.7	454	1959	33	13615	3.7	509	33	12499	477		31	13248	495						
						1960	7	13139	3.6	462	6	11817	429		7	13421	489						
						1958	1	14670	3.4	495	1	13820	466		1	14497	509						
						1959	1	10530	3.9	413	1	8580	321										
						1953	1	14300	3.7	524	1	10930	438										
						1954	2	12765	3.6	457	2	11220	395		1	13113	473						
						1955	1	12810	3.5	443	1	10640	375		1	11859	417						
						1956	1	12910	3.4	440	1	11160	406		1	10813	390						
						1957	1	13110	3.6	471	1	11630	402		1	12426	440						
1011098	4	8	13138	3.5	460	1958	2	9110	3.2	297	2	13585	492		1	12699	436						
						1953	29	12086	3.4	414	28	12339	444		20	11601	422						
						1954	72	13632	3.5	475	70	13490	483		48	12537	461						
						1955	69	13075	3.5	460	69	12617	457		54	13148	474						
						1956	14	13479	3.5	469	14	12421	455		13	12559	450						
						1951	4	11550	3.6	412	3	11073	383										
						1952	15	11348	3.7	413	14	11579	394										
						1953	28	11950	3.7	437	27	11413	410		20	11028	394						
						1954	50	11300	3.7	415	50	11435	409		39	11526	412						
1013716	147	256	11566	3.7	422	1955	29	10744	3.7	395	23	11250	397		20	11344	405						
						1956	18	12189	3.6	440	14	11793	438		1	12208	451						
						1957	31	11739	3.6	423	27	12310	448		22	12351	444						
						1958	37	12692	3.6	452	37	12731	464		22	12197	441						
						1959	44	11467	3.7	423	42	11875	433		32	12515	453						
						1954	1	13240	3.3	442	1	11670	391		1	10268	368						
						1955	1	10060	3.8	379	1	11620	408		1	10540	379						
						1959	13	12431	3.5	441	12	12767	461		8	13020	473						
						1960	10	11619	3.5	407	7	13009	469		9	12969	469						
1014925	180	232	12554	3.7	462	1955	3	10850	3.7	400	3	12973	500		3	11925	437						
						1956	17	12443	3.6	450	14	12333	440		3	11442	393						
						1957	47	11972	3.6	437	45	12051	439		40	12588	456						
						1958	71	13398	3.6	487	71	13181	480		42	12360	443						
						1959	77	12161	3.7	450	74	12663	468		51	13058	479						
						1960	17	11457	3.7	424	15	11917	443		15	11680	439						
						1956	1	11670	3.5	412	1	13890	517		1	12742	495						
						1957	4	12888	3.7	478	4	13905	553		3	13422	529						
						1958	2	14010	3.9	540	2	14170	559		2	12863	525						
1016212	116	155	12011	3.7	444	1959	1	10570	3.7	393	1	13320	509		1	13167	498						
						1955	1	7900	4.6	364	1	10160	365		1	10900	335						
						1956	15	12300	3.8	464	12	12417	451		9	13076	467						
						1957	25	13069	3.6	472	20	12857	469		19	12470	457						
						1958	65	12647	3.7	465	63	12428	448		43	12644	463						
						1959	39	11976	3.7	439	39	11413	425		35	12095	453						
						1960	10	10464	3.7	389	10	10313	393		10	10462	403						
						1952	1	8550	3.7	314	1	10480	367										
						1953	12	10116	3.6	360	12	10225	372		10	10875	387						
1016346	17	39	10154	3.5	356	1954	13	9888	3.6	356	13	9992	366		13	10560	377						
						1955	5	9748	3.7	359	5	10598	402		4	10685	385						
						1956	5	11146	3.2	358	3	10707	383		4	10028	360						
						1957	2	12405	3.8	464	2	13680	514		2	11467	427						
						1958	1	15020	3.2	485	1	14320	511		1	13385	489						
						1951	1	13180	4.1	539	1	12320	439										
						1952	4	12153	3.4	409	4	11723	398										
						1953	5	13838	3.6	501	5	14182	493		1	13309	471						
						1954	3	14667	3.4	506	3	14427	502		3	14090	494						
1016950	1	1	9730	3.6	347	1955	3	11487	3.2	362	2	14210	495		2	14252	509						
						1956	1	12200	3.5	429	1	13810	502		1	14759	525						
						1957	1	15090	3.7	556	1	13020	457		1	14334	511						
						1953	1	9730	3.6	347	1	11150	423										
						1917182	1	1	12830	3.5	450	1959	1	12830	3.5	450	1	13210	513		1	13603	496
						1017183	13	31	12004	3.5	415	1951	2	13800	3.3	449	1	12940	464				
												1952	6	12995	3.4	442	4	11783	409				
												1953	6	12298	3.7	453	6	11612	408		3	9283	331
												1954	5	12140	3.8	452	5	12020	429		4	11979	430
1955	2	11095	3.6	407	2							12255	408		2	10759	381						
1956	4	11563	3.4	394	3							12567	441		1	11162	391						
1957	2	9830	3.7	352	2							12705	448		2	12148	449						
1958	4	11685	3.5	401	4							13040	474		4	12045	432						
1017797	1	1	15020	3.6	537							1958	1	15020	3.6	537	1	14970	500		1	15151	558
1018853	4	6	14406	3.8	533	1958	2	15150	3.7	546	2	14090	494		2	14530	527						
						1959	2	16180	3.7	585	2	12475	484		2	13151	510						
						1960	2	13100	3.8	501	2	8900	368		2	9450	408						

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

[illegible]

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY MILK LB.	HLRD. FAT LB.	AVERAGE
HOLSTEIN																	
1025361	31	49	11984	3.5	4.17	1958	1	4980	3.9	193							
						1959	1	12260	4.0	494	1	14170	549		1	14453	546
						1953	5	11237	3.9	435	5	11787	427		2	12307	450
						1954	5	10094	3.7	371	4	11518	394		4	10737	372
						1955	8	11996	3.6	431	8	11776	415		8	10908	373
						1956	7	10450	3.5	370	6	11568	399		1	10693	376
						1957	8	11996	3.5	416	8	12069	436		8	11862	425
						1958	12	12334	3.4	422	12	12006	432		11	12177	438
1959	6	12768	3.4	437	5	13384	478		4	12347	447						
1025570	1	2	15985	4.4	6.96	1958	1	16680	4.3	721	1	13750	505				
						1960	1	15290	4.4	670	1	11050	418		1	12622	500
1026178	3	3	11707	3.8	4.37	1953	1	9240	4.1	379	1	10870	389		1	9200	332
						1958	1	11980	3.4	405	1	12580	465		1	12361	451
						1959	1	13900	3.8	528	1	13060	504		1	13527	524
1026410	6	9	13348	3.9	5.09	1955	3	12503	4.1	511	5	14177	523		2	10595	387
						1956	1	12720	4.6	583	1	14260	546				
						1957	1	14680	3.9	580	1	11650	449				
						1958	2	14580	3.7	531	2	14745	526		2	12295	453
						1959	2	13735	3.6	484	2	13770	514		1	15587	570
1026806	7	10	11631	3.6	4.18	1952	1	10696	3.7	398	1	11490	435				
						1953	1	7520	3.3	250	1	9920	326		1	12786	483
						1954	2	14920	3.5	523	2	12740	440		2	11048	396
						1955	5	13131	3.5	400	2	12455	473		1	11827	400
						1956	1	9620	3.8	370	1	14900	589				
						1958	2	11660	3.7	432	2	14025	555		1	12306	479
1028404	11	24	11860	3.5	4.11	1953	1	13190	3.7	489	1	11100	429				
						1954	7	12680	3.5	448	7	10950	420				
						1955	6	11858	3.6	426	6	12057	462				
						1956	2	11120	3.6	398	2	12350	476				
						1957	5	11282	3.4	377	3	12547	460				
						1958	2	10920	3.1	343	2	14015	490				
						1959	1	13570	3.2	431	1	14340	497		1	13676	488
1028664	16	17	11848	3.6	4.30	1958	6	13390	3.6	485	6	13733	490		6	12408	454
						1959	9	10746	3.6	386	8	12374	447		7	12569	464
						1960	2	12255	3.7	454	2	14040	505		2	13799	497
1030195	4	6	11830	3.6	4.19	1957	1	15590	3.4	533	1	16550	583		1	15020	555
						1958	2	15340	3.5	537	2	14745	553		2	14361	544
						1959	3	10570	3.6	376	3	12567	454		1	16797	617
1030323	6	10	12372	3.9	4.87	1951	1	10950	3.6	394							
						1952	1	13360	3.8	502							
						1953	1	14510	3.7	537							
						1954	1	14990	3.5	529							
						1956	1	11550	3.9	449	1	11850	429		1	12154	448
						1957	1	11290	3.8	434	1	12760	498		1	11848	423
						1959	5	13147	4.1	537	3	11870	440		3	13164	485
						1960	1	11790	3.7	440	1	11650	427		1	11619	417
1030404	4	4	13443	3.5	4.68	1958	1	15430	3.2	497	1	15350	479				
						1959	3	12780	3.6	459	3	12473	459		2	12977	463
1030848	2	6	13028	3.8	4.92	1953	1	14010	4.1	571	1	13760	519		1	12938	477
						1954	2	13010	3.9	503	2	13970	540		2	14028	528
						1955	1	10450	3.5	363	1	12400	430		1	13396	509
						1956	1	10860	3.6	396	1	13170	479				
						1958	1	12950	3.6	468	1	12460	504				
1032617	104	120	13442	3.7	4.94	1954	1	16420	3.4	565							
						1955	3	11670	4.0	456							
						1956	1	15000	3.7	555							
						1957	8	13741	3.7	502	8	12516	460		6	11485	410
						1958	37	13499	3.7	502	37	13191	472		25	12526	459
						1959	53	13341	3.7	492	53	12935	463		39	13488	487
						1960	17	13518	3.6	489	15	12924	466		16	12772	460
1033032	119	158	13450	3.8	5.12	1957	20	12803	3.9	495	19	13287	507		18	13499	505
						1958	66	13932	3.9	540	65	13470	504		52	12920	485
						1959	62	13333	3.8	503	61	12970	485		53	13342	492
						1960	10	11407	3.7	416	8	12973	485		8	12703	480
1033088	75	102	11670	3.7	4.38	1955	5	11120	3.8	426	5	12132	434		5	11964	421
						1956	16	10924	3.7	406	13	12569	452		3	12244	438
						1957	27	11554	3.8	447	25	12226	435		21	12237	442
						1958	22	12843	3.8	484	22	12940	460		14	12651	460
						1959	27	12373	3.7	461	26	12845	466		21	13013	476
						1960	5	9366	3.7	353	4	11470	406		5	11716	422
1033260	127	162	13422	3.7	4.94	1957	6	12275	3.7	456	5	12088	446		3	11296	397
						1958	71	13500	3.7	495	71	13354	482		44	12676	468
						1959	74	13199	3.7	491	71	13068	470		60	13556	491
						1960	11	15295	3.7	571	10	14285	525		10	14799	544
1033472	26	36	12665	4.2	5.25	1951	1	14680	4.8	698							
						1952	1	13340	3.6	485							
						1954	1	11130	4.3	484							
						1956	3	11410	4.3	489	1	11120	444		1	9777	379
						1957	8	12584	4.2	527	8	12968	490		6	11670	431
						1958	6	12498	4.1	509	6	13156	489		8	13305	479



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1959	9	12830	4.0	515	9	12099	468	7	13641	508
						1960	5	13564	4.0	531	4	12373	485	4	13042	515
1033985	1	1	7350	3.2	235	1954	1	7350	3.2	235				1	9538	327
1035454	72	83	12625	3.8	478	1957	1	12250	4.3	521	1	15150	584	1	13952	551
						1958	19	12228	3.9	478	17	12777	485	14	12816	484
						1959	53	12467	3.8	475	53	12307	460	45	12914	478
						1960	10	13736	3.7	508	6	12574	479	3	13324	512
1035459	1	1	13900	3.5	481	1960	1	13900	3.5	481	1	12680	440	1	14301	516
1035507	3	3	12377	3.8	465	1958	3	12377	3.8	465	3	11623	453	3	12732	490
1035577	6	8	13338	3.3	433	1957	1	8580	3.2	272	1	11990	451	1	11587	407
						1958	3	14660	3.3	484	3	12967	453	3	12826	467
						1959	3	13560	3.4	457	3	12993	477	2	14704	522
						1960	1	16270	3.0	481	1	13100	473	1	13462	467
1035850	11	22	12687	3.6	460	1954	4	12315	3.6	437	4	12068	414	3	12542	451
						1955	5	13248	3.6	479	5	12668	451	5	12971	460
						1956	4	10165	3.6	368	3	12066	456	1	9396	337
						1957	3	12710	3.6	458	3	11943	446	3	11939	454
						1958	5	13544	3.7	497	5	13176	468	2	11718	427
						1959	1	11440	3.7	419	1	12250	445	1	11848	437
1035889	1	2	11680	3.5	405	1956	1	12120	3.6	437	1	17460	608			
						1957	1	11240	3.4	378	1	12460	478	1	8578	392
1037696	3	3	12010	3.0	355	1953	1	16240	2.8	456	1	12150	430	1	12317	458
						1954	1	9390	3.0	283	1	10980	397	1	10802	388
						1955	1	10400	3.1	325				1	10617	357
1038494	183	346	11341	3.6	410	1952	19	12160	3.7	443	19	12055	427			
						1953	34	11526	3.6	416	34	11711	426	24	11960	431
						1954	59	10993	3.6	396	58	11116	400	44	11345	408
						1955	62	11225	3.6	402	51	11525	418	48	11331	411
						1956	51	11184	3.6	404	40	11865	428	13	11650	415
						1957	46	12240	3.7	450	42	12678	469	36	12422	459
						1958	47	12107	3.6	439	45	13242	478	35	12499	458
						1959	26	11728	3.7	431	25	12700	452	19	13659	472
						1960	2	10896	4.1	446	1	13060	470			
1038509	2	3	14118	3.8	524	1953	1	17420	3.6	626	1	14770	507	1	12982	460
						1954	1	10876	3.8	416	1	13280	493	1	12611	465
						1955	1	10760	4.0	425						
1038627	302	493	12384	3.6	442	1952	12	11592	3.6	415	12	11511	426			
						1953	40	11759	3.6	416	38	11613	418	19	11634	429
						1954	50	11607	3.6	414	46	11434	411	34	11727	420
						1955	61	11314	3.7	412	55	11661	421	50	11492	412
						1956	53	12113	3.6	434	46	12093	446	23	12039	439
						1957	83	12902	3.6	467	77	12674	458	66	11910	435
						1958	89	12726	3.6	456	88	12720	457	70	12210	446
						1959	93	13177	3.5	464	91	12794	460	71	13361	475
						1960	12	12448	3.5	439	10	12872	458	11	12926	457
1039565	21	44	10480	3.7	382	1952	1	9580	3.5	338	1	8650	321			
						1953	5	9546	4.0	367	5	11436	424	3	11823	439
						1954	9	10669	3.8	399	9	11639	409	9	12196	441
						1955	11	9755	3.8	373	10	10886	393	7	11057	395
						1956	6	10232	3.7	381	6	11407	399			
						1957	7	11470	3.5	403	7	12707	452	6	11536	410
						1958	3	15040	3.2	471	3	14053	504	3	13004	456
						1959	2	10465	3.5	359	2	10655	404	1	14181	518
1040555	1	1	11640	3.8	447	1960	1	11640	3.8	447	1	11730	427	1	12361	459
1041846	133	242	11458	3.5	397	1951	1	11770	3.1	359	1	11820	333			
						1952	25	11769	3.4	376	25	11201	393			
						1953	35	11378	3.5	396	34	11431	408	23	11736	401
						1954	46	11276	3.5	393	46	11247	407	37	11521	415
						1955	42	10846	3.5	374	38	11651	414	31	11695	412
						1956	24	11440	3.6	410	16	11886	421	2	11427	419
						1957	24	11148	3.6	395	21	11892	431	17	12425	448
						1958	26	12624	3.5	440	26	13019	465	14	12675	459
						1959	19	11223	3.5	390	18	11953	427	18	12764	459
1043856	16	22	12993	3.6	468	1956	4	13568	3.6	490	3	10963	408	2	11516	425
						1957	5	12558	3.7	461	5	12742	462	5	12204	450
						1958	7	14246	3.6	508	7	12930	474	7	13284	467
						1959	6	12838	3.7	466	6	13415	488	5	13758	512
1044435	1	1	5670	3.9	218	1954	1	5670	3.9	218	1	9560	342	1	11247	458
1045390	1	2	14540	3.7	545	1958	1	15000	3.7	562	1	13690	517			
						1959	1	14080	3.7	527	1	12110	440	1	14157	518
1045403	33	52	12050	3.8	460	1955	5	12124	3.9	468	2	12395	460	2	11750	457
						1956	14	11151	3.8	425	9	12363	477	9	12161	460
						1957	11	12452	3.9	469	6	12414	477	8	12865	500
						1958	13	12347	3.8	466	13	12357	455	9	12415	458
						1959	8	13491	3.9	514	6	12963	491	8	13150	497



RECORD AVERAGE 8Y SIRE 8Y FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
						1960		HOLSTEIN									
							1	10530	4.1	4.27		1	10730	3.99	1	11369	4.36
1046466	121	167	12013	3.7	445	1953	1	11150	3.8	4.27		1	12960	4.53	1	11260	376
						1954	7	11320	3.5	4.04		7	11881	4.26	5	10752	387
						1955	20	9779	3.6	3.54		19	10972	3.87	15	10747	386
						1956	17	10587	3.7	3.90		14	11293	4.02	2	12972	4.64
						1957	17	11911	3.6	4.30		16	12376	4.38	8	12494	441
						1958	57	13235	3.8	4.96		55	12943	4.71	31	12125	441
						1959	44	12212	3.7	4.56		43	12490	4.61	27	12442	447
						1960	4	11880	3.6	4.28		4	13273	4.73	3	13636	4.98
1046736	18	25	12961	3.4	446	1956	4	14195	3.4	4.73		3	12157	4.59			
						1957	5	11976	3.5	4.21		5	10468	3.81	3	11754	418
						1958	10	12821	3.4	4.36		10	12205	4.30	8	11602	417
						1959	6	13823	3.5	4.78		6	11698	4.26	6	12303	443
1048342	1	1	12210	3.7	457	1956	1	12210	3.7	4.57							
1048545	2	4	10917	3.7	406	1954	1	11480	3.8	4.42							
						1955	1	11240	3.6	3.99							
						1956	1	8160	3.5	2.87							
						1957	1	11660	3.6	4.21							
1048546	95	128	13229	3.5	466	1954	1	12760	3.3	4.16							
						1955	1	13240	3.3	4.32							
						1956	5	13420	3.6	4.91		2	12855	4.93			
						1957	14	13285	3.7	4.84		12	12536	4.65	11	12590	460
						1958	61	13704	3.5	4.77		61	13728	4.99	29	12514	457
						1959	44	13038	3.5	4.59		43	12978	4.71	35	13421	481
						1960	4	12440	3.7	4.64		4	13085	4.67	2	13516	472
1049402	2	2	16185	3.9	627	1954	1	15580	3.6	5.58							
						1959	1	16790	4.1	6.95							
1049584	44	99	11722	3.6	416	1952	3	10430	3.6	3.82		5	10790	376			
						1953	26	11201	3.6	3.96		25	11551	4.06	17	11208	394
						1954	25	12243	3.6	4.31		20	11512	4.05	17	11727	411
						1955	15	12112	3.7	4.41		12	11667	4.22	11	11653	413
						1956	11	11815	3.6	4.24		9	11758	4.27	3	12702	455
						1957	9	12546	3.5	4.35		7	11913	4.22	5	11447	409
						1958	5	12266	3.6	4.33		5	11870	4.27	3	11372	420
						1959	7	13057	3.7	4.74		6	12827	4.56	6	12967	459
1051059	1	2	11730	3.4	400	1957	1	10960	3.4	3.77		1	12430	4.55	1	12895	448
						1958	1	12500	3.4	4.22		1	13300	4.02	1	11292	398
1051847	1	2	10665	4.1	441	1957	1	11020	4.2	4.65		1	14220	5.19	1	14344	518
						1958	1	10310	4.0	4.16		1	13070	4.54	1	11674	438
1051867	1	1	10710	3.3	350	1958	1	10710	3.3	3.50		1	10820	3.94	1	11183	425
1052521	51	65	11971	3.6	433	1954	1	12450	4.0	4.94							
						1955	1	9630	3.5	3.54							
						1956	2	9390	3.6	3.37							
						1957	2	10120	3.7	3.71		1	11810	4.65	1	12873	479
						1958	23	12804	3.6	4.58		23	12410	4.44	11	11926	434
						1959	33	11766	3.6	4.26		32	12047	4.38	28	12771	460
						1960	3	10387	3.6	3.71		3	13670	4.96	2	13222	4.68
1053320	6	9	11014	3.5	389	1956	2	10600	3.8	3.97		2	13570	4.92	1	10987	392
						1957	2	11425	3.7	4.27		1	13540	5.00	1	12590	453
						1958	3	11893	3.5	4.15		3	13933	4.99	3	12415	445
						1959	1	11830	3.7	4.41		1	12950	4.75	1	12579	446
						1960	1	10570	3.1	3.32					1	13462	4.67
1054310	7	7	9493	3.9	368	1953	2	8660	4.0	3.55							
						1954	1	9060	4.4	3.96							
						1959	1	14350	3.4	4.95		1	14720	5.16	1	14639	522
						1960	3	8440	3.7	3.25							
1054406	91	124	11870	3.6	432	1954	11	10689	3.6	4.12		9	10533	3.85	7	11126	404
						1955	10	10249	3.6	3.75		10	10968	3.98	8	10967	398
						1956	18	10944	3.6	3.94		16	11538	4.42	6	10849	406
						1957	28	11880	3.6	4.28		26	12630	4.55	23	12009	435
						1958	37	12960	3.7	4.75		35	12935	4.71	30	12802	474
						1959	19	12106	3.6	4.32		18	12532	4.51	13	13415	479
						1960	1	12680	4.2	5.37		1	12180	4.60			
1055021	94	158	12892	3.6	464	1952	6	14575	3.3	4.86		6	11012	3.85			
						1953	18	11932	3.6	4.34		16	12357	4.37	16	11944	415
						1954	34	12023	3.6	4.31		33	11369	4.07	29	11751	417
						1955	22	12390	3.7	4.57		17	12151	4.32	16	11982	425
						1956	14	12359	3.6	4.39		9	12127	4.51	1	13560	4.96
						1957	14	13489	3.6	4.87		12	12805	4.69	12	12374	456
						1950	29	14247	3.6	5.17		29	13507	4.91	17	12849	4.64
						1959	19	12554	3.5	4.42		19	13232	4.69	13	13333	472
						1960	2	15150	3.5	5.30		2	14210	5.08	1	14301	516
1055483	76	148	12219	3.7	454	1953	6	12775	3.7	4.73		6	11645	4.08	5	11203	402
						1954	21	11952	3.7	4.45		21	11835	4.15	17	12303	442
						1955	35	11064	3.8	4.14		31	11844	4.25	27	11688	420
						1956	19	10630	3.9	4.08		14	11422	4.13	6	12132	451
						1957	25	11926	3.7	4.42		20	11511	4.21	16	11871	430
						1950	27	12453	3.7	4.56		25	12961	4.60	21	12379	447
						1959	15	13224	3.6	4.77		14	12749	4.58	14	13405	480
						1960	2	13170	3.6	4.69		2	12870	4.51	1	13244	450

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONF. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1056437	19	21	12826	4.0	511	1956	1	14870	4.0	707	1	14460	617			
						1957	2	13150	4.5	590	2	13260	526	1	11848	423
						1958	2	11995	4.0	480	2	12485	475	1	13483	495
						1959	13	12508	3.9	484	13	12005	456	11	12881	475
						1960	3	13233	3.8	505	3	12070	472	3	12211	483
1056438	17	25	12660	3.9	488	1953	1	14420	3.6	514						
						1954	1	15090	4.0	602						
						1955	1	17500	3.7	653						
						1956	2	8185	4.1	353	2	11610	434	1	10497	397
						1957	6	13247	3.8	502	5	12886	509	4	11864	455
						1958	6	13410	3.9	517	6	11692	470	6	12629	492
						1959	6	13063	3.9	508	6	13032	494	5	13562	513
						1960	2	12570	3.9	491	2	11965	455	2	12181	460
1056882	300	468	12365	3.7	451	1953	8	10705	3.7	394	8	11649	432	6	11734	418
						1954	33	10643	3.6	390	31	11633	412	30	11680	421
						1955	57	11326	3.6	410	50	11756	430	49	12012	456
						1956	56	12149	3.6	442	50	11876	432	13	12270	444
						1957	111	12514	3.7	461	104	12625	470	98	12383	453
						1958	118	13272	3.7	488	116	13022	474	99	12729	467
						1959	77	12624	3.6	465	74	12476	453	63	13560	487
						1960	8	12694	3.6	462	8	12769	468	6	13076	487
1057739	145	256	12323	3.8	462	1954	25	12626	3.7	471	21	12353	447	17	12297	459
						1955	38	11360	3.7	423	33	11252	402	27	12186	456
						1956	35	11606	3.8	435	23	11774	430	4	12198	452
						1957	48	11954	3.8	449	44	12042	430	27	11918	427
						1958	66	13180	3.7	487	64	12971	461	54	11933	422
						1959	39	13042	3.7	487	39	12470	456	32	12502	449
						1960	7	12996	3.8	497	5	12598	451	5	12289	449
1058580	3	3	13135	3.6	470	1959	1	13170	3.7	484	1	13500	499	1	15173	569
						1960	2	13115	3.6	463	1	12960	451	2	12405	470
1059273	1	2	12065	3.8	452	1958	1	12160	3.7	446	1	11050	420	1	11162	420
						1959	1	11970	3.8	458	1	9810	359	1	10889	414
1059840	6	7	12759	3.4	424	1955	1	11350	3.5	398	1	10470	400	1	11194	409
						1957	2	12570	3.5	434	2	12760	462			
						1958	1	12680	3.6	387	1	13950	482			
						1959	3	13480	3.2	437	3	13893	475	3	14566	495
1060259	1	1	13220	3.8	508	1960	1	13220	3.8	508	1	14880	513			
1060752	1	2	18940	3.8	721	1958	1	19370	3.8	734	1	13340	483			
						1959	1	18510	3.6	707	1	13040	492	1	14203	541
1060822	8	11	13078	3.7	469	1956	3	11973	3.6	453	2	10570	434	2	10192	395
						1957	1	11580	3.9	449	1	16150	600			
						1958	3	12623	3.7	462	3	12843	501	3	12695	473
						1959	4	14648	3.5	507	4	12738	492	3	12531	475
1061147	87	99	13384	3.9	516	1958	37	14106	3.8	536	35	13951	492	12	12542	459
						1959	53	12981	3.9	509	53	12423	455	37	13460	467
						1960	9	12811	3.8	489	8	12868	463	6	12606	461
1061150	69	128	11865	3.6	423	1952	1	9670	3.5	337	1	9600	322			
						1953	17	12699	3.6	450	17	12198	442	8	10788	399
						1954	34	11772	3.6	418	31	12034	459	22	12074	455
						1955	28	12062	3.7	437	21	12382	449	19	12400	444
						1956	21	13042	3.5	457	14	12579	452	7	12856	464
						1957	12	12335	3.8	461	6	13041	468	6	13476	489
						1958	10	12423	3.5	437	10	13205	476	2	13211	477
						1959	5	12696	3.1	390	5	13278	478	3	14097	505
1061172	156	196	13804	3.7	506	1953	1	14110	3.7	516						
						1954	2	12490	3.6	443						
						1955	6	11165	3.8	425						
						1956	8	10600	3.8	403	3	10387	373	3	11224	398
						1957	29	13050	3.7	478	26	12975	471	22	12608	466
						1958	64	14746	3.7	536	63	13167	480	42	12539	454
						1959	75	13685	3.7	514	72	12047	456	53	13030	471
						1960	11	13324	3.6	480	11	12231	445	7	11633	427
1061174	78	89	12654	3.7	463	1958	14	13616	3.7	506	14	13476	501	12	13472	513
						1959	57	12755	3.6	466	56	12910	479	49	13579	500
						1960	18	12098	3.7	449	15	12686	476	16	13021	480
1061894	27	37	11508	3.8	433	1954	4	10450	4.0	411	3	12533	438	3	12481	441
						1955	3	13560	3.9	516	3	13050	444	3	11445	402
						1956	3	12950	3.7	480	3	11927	420			
						1957	9	11182	3.8	423	9	12590	454	8	12606	475
						1958	11	12029	3.7	453	11	11024	417	9	11659	445
						1959	7	12636	3.8	475	7	12233	446	6	12350	452
1061907	12	12	12348	3.5	438	1959	7	12930	3.5	455	7	12780	452	4	12527	455
						1960	5	11532	3.5	414	5	11660	431	5	12361	459
1061911	12	18	12818	3.5	448	1953	1	23930	3.5	838	1	13600	498			
						1954	1	14600	3.4	497	1	10400	373	1	12045	433

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1953	4	15080	3.4	510	4	12570	436		4	12203	432
						1956	2	12165	3.4	408	2	12490	463				
						1957	1	12240	3.2	390	1	13366	466	1	12666	451	
						1958	3	12470	3.6	441	3	13207	483	1	11598	446	
						1959	5	12424	3.6	447	5	12478	456	4	13363	494	
						1960	1	7130	3.4	245	1	12360	446	1	11467	425	
1062363	89	108	13362	3.4	454	1956	1	13140	3.1	406	1	14510	544				
						1957	8	12193	3.5	424	7	12477	453	7	11118	398	
						1958	39	13423	3.4	452	38	12616	451	27	11963	436	
						1959	46	13747	3.4	465	45	12620	452	37	12841	464	
						1960	14	12886	3.5	444	12	12451	443	12	13620	47	
1062851	6	14	10441	3.6	372	1952	2	12300	3.6	435	2	10960	376				
						1953	5	10360	3.5	366	5	11528	399	5	11286	397	
						1954	4	10963	3.6	395	4	10173	376	4	10944	387	
						1955	1	10520	3.7	413	1	11140	418	1	11216	403	
						1956	1	12631	3.6	457	1	11140	415	1	10551	398	
						1957	1	13010	3.9	506	1	10750	397	1	10976	403	
1062852	6	16	9356	3.6	335	1952	2	8750	3.6	319	1	9006	328				
						1953	7	9513	3.7	348	4	11330	400	4	11107	400	
						1954	2	9700	3.6	342	1	9850	307	1	10475	350	
						1955	2	7795	3.6	275	1	9000	318	1	9145	316	
						1956	2	8375	3.5	296	1	7140	320	1	8764	319	
						1957	1	8270	3.3	276	1	8490	269	1	9047	336	
1062853	60	105	10128	3.6	356	1952	3	9497	3.5	331	2	12365	437				
						1953	7	9696	3.5	338	7	11970	437	6	11865	426	
						1954	22	9006	3.6	326	22	10245	377	21	10481	364	
						1955	28	10423	3.6	373	26	10829	406	25	10858	393	
						1956	17	11034	3.5	386	9	12624	451	10	11325	412	
						1957	11	11435	3.5	395	8	12755	452	6	11681	437	
						1958	10	11605	3.4	377	9	11463	416	8	10903	400	
						1959	6	10653	3.3	359	5	11126	416	3	11914	440	
						1960	1	9710	3.5	339	1	9590	329	1	9603	335	
1064006	20	20	12092	3.5	427	1959	19	12362	3.5	437	19	12517	457	15	13061	469	
						1960	1	6970	3.5	245	1	14910	500	1	12611	462	
1064099	2	2	16290	3.7	593	1958	1	17300	3.6	627	1	12560	482				
						1959	1	15200	3.7	558	1	11740	397	1	12786	466	
1064113	1	1	9226	3.7	341	1959	1	9220	3.7	341				1	9810	355	
1064738	1	1	9630	3.8	363	1958	1	9630	3.8	363	1	10860	393	1	11183	425	
1066941	1	2	14020	3.3	457	1958	1	14430	3.3	476	1	13920	541				
						1960	1	13610	3.2	437	1	11290	451	1	12622	500	
1068248	27	33	14082	3.6	503	1953	1	12580	3.5	440							
						1957	7	14886	3.6	531	7	13364	494	5	12367	442	
						1958	14	13875	3.7	506	13	13185	468	13	12230	445	
						1959	10	13428	3.5	470	10	12562	457	9	13185	467	
						1960	1	16260	3.5	568	1	15750	341				
1068877	3	3	11810	3.5	414	1958	1	10770	3.7	402	1	12190	462	1	10856	410	
						1959	2	12330	3.4	420	2	11750	401	1	12415	423	
1070036	1004	1545	13784	3.8	520	1952	2	11560	3.6	409	2	11760	437				
						1953	49	14676	3.7	555	49	12594	457	40	11831	416	
						1954	186	13538	3.6	512	170	12106	429	147	12237	432	
						1955	164	12974	3.8	487	129	12205	428	122	12261	432	
						1956	148	13126	3.8	499	111	12223	442	24	11992	427	
						1957	171	13600	3.8	519	157	12558	453	146	12315	447	
						1958	436	14269	3.8	536	427	13411	461	225	12590	455	
						1959	351	13755	3.8	517	338	12644	455	256	13459	455	
						1960	38	13320	3.7	496	34	13225	466	22	13038	476	
						1070195	1	2	13795	3.3	448	1953	1	15530	2.8	434	1
1954	1	12060	3.8	461	1							12890	442	1	11031	365	
1070198	50	65	13558	3.7	494	1956	2	11940	4.1	501	1	8890	304	1	10529	373	
						1957	10	13504	3.6	484	10	13664	466	10	12809	465	
						1958	26	14322	3.6	509	26	12595	458	23	12089	441	
						1959	25	13115	3.6	476	25	12410	455	21	12827	471	
						1960	2	14315	3.7	528	2	11090	398	2	11609	426	
1070850	40	50	13554	3.5	471	1956	3	12270	3.5	431	2	10350	367				
						1957	11	14413	3.5	491	10	13307	494	8	12695	462	
						1958	22	14610	3.5	503	22	12676	473	17	12982	483	
						1959	10	13245	3.4	450	10	12924	479	7	13431	506	
						1960	4	10740	3.7	394	4	11553	404	4	11170	404	
1071988	1	1	10880	4.1	443	1956	1	10880	4.1	443	1	13570	499				
1072529	16	18	11172	3.6	405	1956	1	10070	3.3	334							
						1957	1	7490	3.5	259	1	7970	350	1	8524	365	
						1958	3	13497	3.6	483	3	13573	490	3	12840	485	
						1959	13	11375	3.6	414	13	12563	462	10	13691	506	
1072819	7	8	11995	3.8	453	1955	1	12470	3.8	471	1	14930	640				
						1956	1	9970	4.2	421	1	14750	634				

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
1073461	2	3	12453	3.8	468	1957	2	12215	3.7	452	2	12510	456	2	11887	436
						1958	1	11960	3.6	433	1	12410	473	1	13483	495
						1959	3	12700	3.7	472	3	13043	487	2	13260	402
						1958	2	12515	3.7	461	2	14145	537			
1960	1	12710	3.6	459	1	13240	513	1	12622	500						
1073818	16	31	11963	3.7	444	1953	3	11527	3.8	443	3	11417	406	2	9816	373
						1954	5	9258	3.5	320	4	11982	425	1	10551	307
						1955	6	11468	3.7	429	6	11310	407	5	11607	422
						1956	7	12111	3.7	442	6	11615	435	3	12633	486
						1957	3	13067	3.7	482	3	11350	438	3	12052	450
						1958	4	11643	3.9	451	4	11988	460	2	11919	445
						1959	3	14473	4.0	571	3	12600	484	2	11832	473
						1957	7	12001	3.7	438	7	12011	439	6	12333	455
1958	45	12974	3.7	475	45	12902	469	23	12360	442						
1959	47	12025	3.8	451	46	12317	450	37	12987	477						
1960	8	11029	3.7	407	8	12548	469	5	11288	424						
1075280	4	6	13419	3.6	486	1958	2	11985	3.7	446	2	10385	388	2	12138	466
						1959	3	14223	3.6	510	3	11483	442	3	12847	488
						1960	1	12350	3.7	454	1	11610	435	1	11957	465
						1953	1	12810	3.4	440	1	11870	385	1	11870	387
1076122	65	103	11343	3.6	405	1954	10	12705	3.5	444	10	12107	409	9	12020	410
						1955	22	11341	3.5	396	17	10724	380	14	11791	408
						1956	21	11340	3.5	392	12	11360	411	3	11772	426
						1957	19	10942	3.5	389	18	11424	413	12	11403	408
						1958	17	11499	3.7	422	17	12604	456	12	11979	444
						1959	12	11180	3.6	400	12	11873	429	9	12392	453
						1960	1	12170	3.7	453	1	12950	488	1	12481	460
						1957	5	13944	3.7	511	5	13576	521	5	13405	497
1958	6	13568	3.7	503	6	14515	551	4	15380	566						
1959	13	12927	3.5	455	13	12758	482	13	13618	505						
1960	1	14690	3.9	577	1	12620	485	1	14214	545						
1079424	17	17	12028	3.7	442	1958	2	14675	3.6	530	2	12350	476	1	10856	410
						1959	13	11987	3.7	445	13	12378	447	13	12345	456
						1960	2	9645	3.5	339				1	12840	489
						1955	2	15920	3.6	575	2	14725	516	2	14661	525
1080157	53	68	14107	3.5	488	1957	10	11087	3.5	381	10	12063	443	8	12576	462
						1958	39	14684	3.5	507	37	13517	487	33	12650	467
						1959	17	13661	3.5	473	16	12925	466	12	13524	478
						1959	1	9860	3.5	348	1	8010	301	1	8524	351
1081270	32	48	12184	3.8	458	1954	5	13502	3.7	486	5	13096	471	4	12540	452
						1955	5	11134	3.8	426	5	11062	415	5	11131	413
						1956	5	12276	3.9	475	3	13007	459	1	14017	464
						1957	11	11572	3.7	436	11	12741	456	11	12169	440
						1958	16	13228	3.8	503	15	13559	483	10	13378	467
						1959	5	13728	3.8	529	5	13888	531	5	14767	550
						1960	1	16290	3.6	591				1	16492	570
						1081684	43	77	10981	3.9	428	1954	7	11264	4.3	483
1955	12	9813	4.1	402	9							11334	407	9	11186	395
1956	9	10298	4.1	420	7							12067	449	1	9407	329
1957	19	10862	4.1	437	18							12954	484	15	11957	450
1958	21	12446	3.9	480	21							12872	467	18	12263	454
1959	6	11192	3.7	409	6							12455	455	5	12448	458
1960	3	14450	3.5	510	3							13695	495	3	12953	472
1082308	10	13	11314	3.9	438							1952	1	12390	3.8	476
						1953	1	9700	4.2	407	1	12720	448			
						1954	1	10150	4.0	410	1	12520	426	1	12895	450
						1955	2	10365	3.9	400	2	11835	437	2	12306	436
						1956	2	9785	3.8	372	2	11255	401			
						1957	1	14150	3.5	470	1	12300	444	1	12132	447
						1958	4	12365	4.0	491	4	12995	468	3	12553	463
						1959	1	10950	4.1	444	1	14560	550			
1082509	2	6	13025	3.2	409	1953	2	12105	3.1	375	2	13370	453	2	13756	463
						1954	2	14180	3.0	428	2	14365	484	2	14955	475
						1955	2	12790	3.3	424	2	12700	473	2	13483	457
						1958	1	14710	3.4	506	1	12870	473	1	12524	467
1085879	7	10	11312	3.6	404	1954	2	12225	3.6	444	2	11805	412	2	11522	466
						1955	2	9700	3.6	349	2	11635	405	2	11364	379
						1956	1	12710	3.8	485	1	13800	305	1	10224	372
						1957	1	7720	3.6	297	1	11530	403	1	12045	459
						1958	3	10633	3.6	383	3	12783	462	3	11703	424
						1959	1	13980	3.2	445	1	13970	519	1	15020	574
1086776	10	22	11057	3.7	407	1953	2	10430	3.6	375	2	13130	456			
						1954	5	11854	3.7	432	5	12534	448	4	11709	425
						1955	7	10670	3.7	393	7	11869	416	7	11672	417



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HLRD MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
1087246	19	19	12943	3.7	477	1956	3	10307	3.8	386	3	11840	417	1	9200	340	
						1957	2	10795	3.6	388	2	13645	481	2	12890	452	
						1958	1	12100	4.3	520	1	14260	480	1	12906	467	
						1959	2	10990	4.0	437	2	12155	439	2	12694	454	
1959	12	12892	3.6	465	12	12646	456	9	13280	474							
1960	7	13030	3.8	498	7	13563	479	6	13594	482							
1087974	2	2	7055	3.5	249	1960	2	7055	3.5	249	2	11025	436	2	11494	450	
1088151	44	52	13486	3.9	524	1958	20	14017	3.9	542	20	13322	498	16	13235	500	
						1959	29	13052	3.9	514	29	13016	486	27	13413	496	
						1960	3	14493	3.7	536	3	12263	449	3	12822	470	
1088707	41	67	12353	3.7	450	1953	1	11670	3.8	438	1	11070	413	1	10846	408	
						1954	7	12471	3.6	451	6	11890	451	5	12097	456	
						1955	21	11227	3.7	414	17	11156	415	16	11316	435	
						1956	7	12869	3.8	483	5	12410	454	1	13505	468	
						1957	17	12632	3.7	461	17	12440	450	15	11925	442	
						1958	11	14494	3.6	524	11	13540	491	11	12914	470	
						1959	3	15567	3.4	526	3	12360	460	2	13369	505	
1088709	15	23	11155	3.6	398	1955	5	9942	3.8	383	5	10318	379	4	10347	384	
						1956	5	10840	3.5	384	5	12022	435	2	9047	335	
						1957	8	12196	3.4	417	7	13106	468	6	12622	449	
						1958	4	11823	3.7	440	4	11568	410	4	12533	452	
						1959	1	14850	3.8	572	1	14660	535	1	13571	521	
1088846	55	59	13063	3.7	484	1958	16	13098	3.7	488	16	12763	470	9	12264	435	
						1959	41	12973	3.7	484	41	12813	473	33	12929	467	
						1960	2	14940	3.6	543	2	13490	498	1	14061	524	
1089423	87	93	13428	3.6	479	1958	22	14343	3.6	511	22	13353	484	18	12909	467	
						1959	60	13393	3.6	479	60	12779	463	47	13540	494	
						1960	11	12568	3.6	448	11	11940	434	11	12440	452	
1090340	3	4	13940	3.9	545	1953	1	10600	3.8	404	1	12090	437				
						1955	1	12490	3.6	450							
						1956	1	12830	3.8	485							
						1959	1	18560	4.1	764	1	13430	496				
1090978	110	144	12209	3.6	436	1954	1	11560	4.1	466	1	13260	487				
						1955	16	12045	3.7	442	10	11558	422	9	11482	420	
						1956	16	11849	3.6	429	12	12736	462	5	12480	457	
						1957	25	12217	3.7	446	24	12718	464	24	12263	445	
						1958	45	12352	3.6	441	45	13542	482	16	12423	438	
						1959	38	12567	3.6	449	38	12871	463	31	13235	480	
						1960	3	12220	3.5	408	3	12747	436	2	12911	455	
1090980	62	84	12588	3.7	458	1956	3	12293	3.7	453	2	12000	455				
						1957	20	11509	3.7	423	18	13181	483	16	11959	436	
						1958	33	12874	3.6	465	33	12721	457	22	12489	454	
						1959	24	13092	3.7	476	24	12966	465	20	13403	485	
						1960	4	12196	3.5	405	4	12385	439	4	12761	454	
1090996	35	52	11652	3.6	418	1956	2	13255	3.4	441	1	14970	526	1	12960	459	
						1957	9	11949	3.6	434	9	10791	420	8	10726	427	
						1958	19	12027	3.6	432	19	11858	443	16	11781	444	
						1959	20	11418	3.6	412	19	11714	445	17	12062	456	
						1960	2	11990	3.6	425	2	9685	406	2	11200	435	
1091004	5	6	12704	3.3	418	1958	2	14550	3.2	462	2	13890	486	2	11549	414	
						1959	1	9400	3.3	513	1	14320	500	1	15118	522	
						1960	3	12187	3.4	411	3	10773	403	3	11805	431	
1091409	42	51	12733	3.7	465	1957	1	8350	4.6	533	1	11290	479				
						1958	18	13698	3.7	498	18	12246	453	15	12069	447	
						1959	28	12474	3.6	451	28	11940	434	24	12181	451	
						1960	4	10040	3.7	372	4	10523	377	4	10729	364	
1092773	10	15	12708	3.7	459	1954	2	10845	3.8	408	2	11990	432	1	11990	431	
						1955	6	12772	3.8	473	5	13144	487	4	11843	429	
						1956	2	12515	3.7	460	2	12195	460				
						1957	2	14135	3.5	491	2	12415	478	2	13418	492	
						1958	3	14123	3.6	501	3	13623	497	2	14279	531	
1092843	22	35	12365	3.6	441	1957	4	11555	3.5	405	4	11673	407	3	10798	386	
						1958	15	12724	3.6	462	15	12659	453	13	12275	441	
						1959	16	12266	3.5	428	15	12136	434	15	12435	447	
1094296	5	8	13468	3.7	496	1953	1	12930	3.3	421							
						1954	1	11930	3.4	403							
						1955	1	10980	3.3	363							
						1958	4	15425	3.6	558	4	13995	506	4	12824	473	
						1959	1	11150	4.4	492	1	12060	441				
1094325	17	24	12543	3.5	433	1955	3	11853	3.4	404	3	11700	430	3	12321	449	
						1956	2	12155	3.6	429							
						1957	5	12318	3.5	434	5	12928	479	4	12540	463	
						1958	9	13094	3.5	456	9	13646	504	8	11944	442	
						1959	4	12643	3.6	456	4	11658	417	3	13737	508	
						1960	1	15830	3.4	545	1	15220	537	1	15652	547	
1094921	35	52	11682	3.8	442	1954	2	10265	3.7	378	2	10150	369	1	12927	466	
						1955	7	9381	3.7	349	6	10670	384	5	10294	374	
						1956	8	12018	3.7	441	5	12418	445	4	9908	325	
						1957	10	12092	3.9	465	8	12438	457	7	12994	471	
						1958	15	12498	3.7	468	14	13441	499	11	13052	490	



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						1959	HOLSTEIN 10	13144	3.8	502	9	12989	477	8	13245	475
1099342	7	12	14064	3.7	521	1956	1	15300	3.5	530	1	14000	473			
						1957	2	11860	3.5	411	2	12560	441	2	11494	399
						1958	4	16265	3.6	581	4	13298	479	3	13312	485
						1959	5	13248	3.6	504	5	12792	466	4	13369	490
1101117	1	3	11540	3.6	418	1958	2	10995	3.5	382	2	9625	404			
						1959	1	12630	3.9	492	1	9370	398	1	9930	423
1104657	28	54	11179	3.9	439	1954	4	10188	4.3	432	4	12288	454	3	12135	447
						1955	15	10454	3.9	404	13	11712	403	13	11918	424
						1956	11	11789	3.9	460	7	11697	429			
						1957	9	11844	4.0	476	7	12093	444	5	12328	455
						1958	8	13356	4.1	551	8	12771	476	7	12638	478
						1959	7	10287	3.9	396	7	11299	433	6	12659	468
1105001	24	32	12570	3.7	459	1957	4	11148	3.6	404	4	12960	481	4	12170	458
						1958	15	12878	3.7	468	15	12919	471	11	12500	457
						1959	12	13098	3.7	485	11	12315	443	7	12966	475
						1960	1	13550	3.7	495	1	11810	409	1	14017	508
1105369	1	1	12920	3.3	424	1957	1	12920	3.3	424	1	14790	510			
1106534	79	99	12978	3.8	491	1956	2	12895	3.6	466				1	10955	391
						1957	6	11843	3.6	435	5	11444	423	1	13254	510
						1958	32	13652	3.8	510	32	12782	465	20	11974	433
						1959	50	12589	3.7	485	49	12305	453	39	12678	461
						1960	9	12179	3.8	465	8	11613	421	9	12397	460
1106407	17	22	12174	3.5	426	1954	1	11820	3.3	393	1	12830	444	1	13483	462
						1955	1	11820	3.6	426	1	11650	409	1	11903	422
						1956	1	11830	3.6	421						
						1957	6	11838	3.5	417	6	11572	419	6	11670	450
						1958	5	11280	3.5	388	5	12792	468	5	12260	451
1959	8	12968	3.5	455	8	13084	470	3	11725	422						
1106775	36	52	11871	3.6	426	1954	1	15520	3.7	569	1	14090	523	1	13930	478
						1955	9	9719	3.8	363	8	11419	413	8	11272	405
						1956	9	11198	3.7	408	9	11666	420	4	10706	395
						1957	7	12556	3.6	449	6	12965	469	7	12379	450
						1958	13	11866	3.6	423	13	12746	460	11	12469	462
						1959	12	11419	3.7	417	12	12368	449	8	12139	443
						1960	1	12440	3.6	453	1	13480	538	1	13843	531
1107852	17	23	12324	4.0	488	1957	1	12210	3.6	445	1	11660	442	1	12055	446
						1958	14	12555	4.0	502	14	13047	513	9	13367	517
						1959	8	11870	3.9	454	8	12048	456	6	13018	432
1108713	1	2	10665	3.1	331	1955	1	12080	3.2	386	1	13230	455			
						1956	1	9250	3.0	276	1	14130	491	1	12099	470
1109891	6	6	11957	3.6	432	1959	3	10733	3.7	387	3	12593	470	2	12868	479
						1960	3	13180	3.6	477	3	8843	332	3	11726	422
1110594	108	125	13355	3.7	497	1958	45	13499	3.7	494	44	13071	470	33	12091	446
						1959	70	13430	3.8	503	68	12547	449	60	12842	462
						1960	10	11613	3.9	457	9	13387	478	9	12559	464
1111075	39	64	11846	3.7	436	1954	5	9958	3.7	369	5	9618	345	5	9806	362
						1955	9	11546	3.6	416	9	11567	406	9	11426	415
						1956	9	12509	3.7	460	5	10640	390	1	8687	336
						1957	15	12013	3.7	443	14	12257	455	12	11797	456
						1958	14	11799	3.7	434	14	13004	472	12	12605	451
						1959	9	12361	3.7	461	8	12885	466	6	13423	488
						1960	3	10770	3.6	384	3	11313	420	3	11787	444
1111076	31	50	12562	3.6	451	1954	1	14760	3.8	561	1	13680	497	1	10911	415
						1955	4	12513	3.9	474	4	11175	399	4	11715	457
						1956	7	12684	3.8	473	7	12753	466	4	12524	448
						1957	18	13043	3.8	490	14	12792	476	12	12274	464
						1958	10	14656	3.3	487	10	12763	468	6	13567	490
						1959	10	12956	3.4	440	10	12323	451	8	13269	474
1112216	19	23	11582	3.6	418	1956	5	10430	3.6	371	4	13070	462	1	13451	486
						1957	11	11031	3.6	397	11	12079	441	10	12147	444
						1958	2	14085	3.6	502	2	14165	519	1	13581	491
						1959	3	12717	3.7	464	3	12180	465	3	13040	501
						1960	2	12645	3.7	461	2	12215	473	2	11445	443
1113278	60	93	12126	3.7	444	1954	1	12600	3.6	455	1	12090	409	1	11761	423
						1955	7	11077	3.7	411	7	10750	395	6	11204	408
						1956	10	10630	3.7	386	9	10719	392	2	9654	366
						1957	23	12155	3.7	447	22	12080	435	18	11428	413
						1958	27	12674	3.7	467	27	12763	458	22	12754	454
						1959	21	12241	3.6	448	21	12380	447	16	13119	467
						1960	4	14703	3.5	513	4	14285	525	3	13287	488
1113778	4	4	13645	3.6	484	1959	4	13645	3.6	484	4	13575	488	4	13276	476
1113396	46	52	14099	3.4	482	1958	9	14774	3.4	489	9	13268	492	7	13869	509
						1959	35	13991	3.5	484	34	12945	462	27	13873	476
						1960	8	12986	3.4	446	6	13148	452	6	13362	472

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1115426	1	2	6895	3.4	230	1955	1	6150	3.4	209	1	8270	284			
						1956	1	7640	3.3	250	1	9260	368	1	9396	337
1115429	1	1	8460	4.0	338	1958	1	8460	4.0	338	1	13520	484	1	12808	461
1116129	21	34	12944	3.7	460	1954	2	11370	3.8	427	2	11140	410	1	9723	342
						1955	6	12270	3.7	452	6	11663	439	2	11941	412
						1956	6	11473	3.5	399	4	12548	446			
						1957	6	12493	3.7	464	6	12840	471	3	12935	476
						1958	8	14956	3.7	549	8	14130	502	6	15162	541
						1959	6	14448	3.7	536	6	13083	471	5	14772	528
1116198	40	53	11335	3.5	401	1955	2	12175	3.3	399	2	11440	399	2	11604	408
						1956	6	10657	3.5	371	6	11223	403	2	10693	376
						1957	8	10361	3.5	359	8	11935	440	8	12042	441
						1958	22	11620	3.5	412	22	12219	440	19	12515	457
						1959	15	12377	3.5	440	14	12216	445	12	13393	487
1116800	2	2	13135	3.5	447	1958	2	13135	3.5	447	2	11150	396	2	11183	425
1117001	1	4	14340	3.6	513	1953	1	16700	3.5	588						
						1955	1	15450	3.6	555						
						1956	1	11140	3.7	408						
						1957	1	14070	3.6	502						
1117372	1	1	10230	3.6	373	1960	1	10230	3.6	373	1	13050	471	1	12666	460
1118017	55	67	12994	3.9	499	1955	1	8850	3.5	333						
						1957	10	12698	3.9	503	9	12132	443	8	11898	425
						1958	28	13765	3.8	527	28	13232	477	26	12258	449
						1959	24	12218	3.8	462	23	12783	466	20	13090	483
						1960	4	11776	4.0	461	4	12510	454	4	13279	477
1118688	3	9	11500	4.0	461	1952	2	11905	4.1	482	2	12555	442			
						1953	3	11083	4.0	458	3	11507	419	3	11165	393
						1954	2	12720	4.0	508	2	12695	456	2	12655	455
						1955	1	14310	3.9	563	1	12350	422	1	13069	455
						1956	1	14610	4.0	583	1	12040	445	1	13407	507
1119067	2	5	13064	3.9	502	1955	1	12570	4.1	511	1	14240	516	1	12688	460
						1956	1	10400	4.0	415	1	14670	535	1	13560	489
						1957	1	15070	3.6	545	1	16780	587	1	15914	576
						1958	1	16220	3.9	637	1	15640	570	1	15336	566
						1959	1	12640	3.5	441	1	13760	487	1	16437	610
1119383	13	13	12068	3.5	424	1959	10	12454	3.5	438	10	12869	470	8	13669	474
						1960	3	10780	3.5	380	3	12143	442	2	12666	443
1119514	58	88	12741	3.4	435	1953	1	13560	3.0	402	1	12190	456	1	13658	482
						1954	8	12906	3.6	456	8	12610	453	7	12339	452
						1955	10	13469	3.5	467	8	12205	442	8	12524	456
						1956	11	13293	3.2	431	8	12300	444	2	11456	441
						1957	21	13132	3.5	457	21	12975	484	20	12142	440
						1958	26	12506	3.5	428	26	13042	477	21	12028	463
						1959	8	13150	3.4	446	8	12673	466	7	13525	476
						1960	3	12383	3.5	438	1	11550	419	1	16492	590
1120013	1	1	9930	3.6	360	1960	1	9930	3.6	360	1	12340	461	1	12502	460
1120619	5	6	13975	3.6	507	1958	3	13517	3.5	476	3	12277	449	2	10519	371
						1959	3	14620	3.6	532	3	11990	420	3	13214	477
1122159	10	13	10797	3.8	402	1957	1	12490	3.7	462	1	14050	522	1	15107	556
						1958	3	12923	3.5	456	3	13917	521	2	13178	495
						1959	9	10712	3.8	405	9	11697	437	7	13119	492
1125395	36	57	13491	3.6	489	1955	1	9110	4.1	377	1	11310	466	1	11423	445
						1956	5	14814	3.6	533	4	13133	468	2	12829	465
						1957	16	14331	3.6	518	15	13167	493	12	12595	466
						1958	21	13313	3.6	481	20	12452	458	18	12443	456
						1959	13	13297	3.6	486	13	13837	505	10	13374	503
						1960	1	9460	3.9	367	1	12750	446	1	12895	464
1125597	4	4	13498	3.5	453	1959	4	13498	3.5	453	4	12225	457	3	13374	490
1125635	9	10	11662	3.9	458	1958	1	13140	3.5	462	1	13020	500			
						1959	8	11745	4.0	471	8	12211	475	4	13080	489
						1960	1	10970	3.2	355	1	11220	399			
1128314	23	23	12570	3.7	459	1959	18	13119	3.7	479	18	12771	460	11	12799	462
						1960	5	10596	3.7	387	4	13285	478	4	13936	493
1128315	76	107	12454	3.8	471	1955	4	10345	3.9	402	4	11740	416	4	11640	401
						1956	10	13214	3.7	498	9	13424	503	1	13560	496
						1957	20	11731	3.8	449	19	12643	462	18	12546	449
						1958	44	13520	3.7	499	44	13583	487	23	12313	444
						1959	25	11667	3.9	456	25	12198	451	18	13546	489
						1960	4	12733	4.0	507	4	14713	523	2	12693	471
1128931	1	1	7750	3.7	284	1959	1	7750	3.7	284	1	9590	356	1	10562	362

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR														
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.				
HOLSTEIN																				
1130589	7	10	12206	3.8	458	1956	5	12024	3.9	467	1	11060	347	2	10661	389				
						1958	3	12257	3.7	452	3	12360	460	3	12542	459				
						1959	2	12155	3.7	445	2	11535	427							
1131008	5	6	10383	3.9	402	1955	2	8330	4.2	347	2	9820	364	2	14017	455				
						1956	1	11490	3.2	371	1	10640	351							
						1957	1	8700	3.9	339	1	13300	462	1	9461	334				
						1958	2	11860	4.0	478	2	13660	497	2	12524	456				
1131186	1	1	13660	3.4	467	1959	1	13660	3.4	467	1	11370	412	1	13026	453				
1131206	22	24	12810	3.6	466	1958	8	13295	3.6	476	6	13034	491	8	12293	457				
						1959	15	12442	3.7	461	14	11755	435	13	12573	463				
						1960	1	14500	3.2	469	1	15060	495	1	15652	547				
1132414	2	2	11925	3.6	423	1960	2	11925	3.6	423	2	11020	503	2	11216	442				
1132993	62	84	12483	3.8	467	1955	1	10270	3.4	344	1	10600	377	1	10137	359				
						1956	6	11148	3.9	426	5	10754	400	2	11020	400				
						1957	15	13069	3.8	489	13	11678	431	14	11672	438				
						1958	34	12675	3.7	473	34	12749	469	28	12254	450				
						1959	22	12991	3.8	489	22	12921	471	18	13304	489				
						1960	6	11850	3.8	450	6	12218	439	5	11613	414				
1133192	3	3	12777	3.8	481	1959	1	13020	3.6	473	1	11560	398	1	12677	452				
						1960	2	12655	3.9	485	2	12330	442	2	12154	453				
1133271	4	4	13298	3.6	479	1958	1	11790	3.6	430				1	11674	417				
						1959	2	14210	3.6	501	2	16220	545	2	16148	548				
						1960	1	12980	3.7	484	1	14200	514	1	14759	519				
1133899	13	16	11929	3.7	435	1958	4	12493	3.7	462	4	12348	442	4	11302	401				
						1959	11	11762	3.6	427	11	11961	430	10	12398	479				
						1960	1	12060	3.5	424	1	9950	362	1	11314	412				
1134208	2	2	13315	3.5	460	1959	1	13790	3.1	427	1	11860	434	1	12633	452				
						1960	1	12840	3.8	492	1	11130	393							
1135651	4	6	14478	3.7	530	1958	2	14255	3.6	516	2	13410	502	2	15086	550				
						1959	3	15973	3.7	591	3	15720	620	1	16797	617				
						1960	1	12300	3.4	416	1	15490	656	1	12546	450				
1138724	35	36	13049	3.5	459	1958	3	16017	3.2	516	3	15403	558	2	13495	502				
						1959	26	12900	3.6	460	26	12860	464	17	13954	501				
						1960	7	12147	3.5	422	6	13585	477	6	13322	473				
1140386	58	91	13261	3.6	471	1955	1	8600	3.3	289	1	10950	376	1	10824	377				
						1956	13	13274	3.5	456	10	12038	440	1	12045	425				
						1957	18	12353	3.5	435	16	11937	431	16	12077	438				
						1958	32	13133	3.5	463	32	12950	466	20	11787	450				
						1959	23	13150	3.7	485	23	11930	437	20	12330	452				
						1960	4	14775	3.9	577	4	13035	486	4	12475	457				
1145163	10	10	10917	3.4	361	1959	7	12083	3.3	393	7	11621	441	4	11922	452				
						1960	3	8197	3.5	285	3	9227	333	3	9073	356				
1145788	4	7	10700	3.6	376	1957	2	11550	3.2	371	1	12150	377	1	9701	332				
						1958	3	11320	3.4	377	3	11480	427	3	12248	448				
						1959	2	10055	3.8	384	2	10735	398	2	11244	395				
1146113	4	6	13718	3.7	508	1955	1	16810	3.9	660	1	14160	537	1	10595	387				
						1956	1	10090	4.4	440	1	13290	469	1	11271	416				
						1957	2	11765	4.0	464	1	12440	467	2	10955	393				
						1958	2	13755	3.7	501	2	13365	465	2	11674	418				
1146343	8	10	14318	3.8	537	1955	1	9620	4.9	472										
						1956	2	12335	3.8	456										
						1958	4	15168	3.7	564	4	13813	528	4	13282	567				
						1959	3	14607	3.7	545	3	13590	508	2	13643	526				
1146607	1	1	14580	3.3	484	1960	1	14580	3.3	484	1	9380	335	1	10617	378				
1150650	1	2	11120	3.6	394	1958	1	11330	3.4	389	1	10630	373	1	10573	368				
						1959	1	10910	3.7	399	1	9400	336	1	10944	382				
1152211	1	2	10670	3.6	389	1958	1	12440	3.6	452	1	11860	416	1	11183	425				
						1959	1	8900	3.6	325	1	10640	379	1	11020	400				
1152241	68	89	12785	3.6	463	1955	6	13612	3.8	514	6	12528	450	5	11255	411				
						1956	8	11903	3.6	434	5	12498	452	6	12958	461				
						1957	19	12712	3.6	454	15	12991	474	14	13094	473				
						1958	27	13221	3.6	478	27	13193	477	16	13079	475				
						1959	24	12181	3.7	447	24	12469	461	17	12569	463				
						1960	5	14002	3.4	476	4	13775	486	3	14061	506				
1152248	17	19	11881	3.6	428	1957	1	10390	3.1	324	1	12690	431	1	12154	426				
						1958	8	11484	3.5	402	8	13509	485	8	12286	441				
						1959	8	11600	3.8	440	8	12796	464	7	13947	517				
						1960	2	13645	3.4	458	2	13000	478	2	13854	510				
1152351	12	19	12250	3.7	453	1955	1	9580	3.9	375	1	9280	342							
						1956	3	12400	3.6	452	3	11627	439	1	10224	372				

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
1153054	1	1	21510	3.4	727	1957	5	12584	3.7	473		5	11716	430	4	11478	417
						1958	8	11829	3.8	441		8	12885	482	7	12916	473
						1959	2	14670	3.5	511		2	12415	466	2	12552	465
						1958	1	21510	3.4	727		1	16370	590	1	14116	530
1153740	12	13	13622	3.6	493	1957	2	12855	3.8	480	2	12650	453	1	11532	470	
						1958	7	13986	3.6	497	7	13499	492	6	13436	486	
						1959	4	13705	3.7	504	4	13773	488	4	13034	480	
						1958	3	11703	3.5	413	3	12453	460	2	13069	487	
1156059	8	9	11939	3.6	425	1959	5	11840	3.6	427	5	11748	442	4	12026	445	
						1960	1	12810	3.3	422	1	12970	471	1	12786	465	
						1958	2	12505	4.0	493	2	12900	516	2	14083	537	
						1957	2	10305	3.6	365	1	11080	374	1	10148	363	
1157722	9	11	13051	3.5	454	1958	5	12166	3.5	434	5	12984	457	4	12473	444	
						1959	4	15658	3.4	530	4	13705	485	3	14406	517	
						1958	4	14415	3.8	552	4	12700	457	2	11549	432	
						1959	5	14366	3.8	552	5	13402	492	4	14086	513	
1164014	8	9	13933	3.8	528	1957	2	9235	3.7	541	2	10405	381	2	12126	428	
						1958	2	11855	3.7	428	2	14145	489	1	10202	360	
						1959	4	12785	3.7	469	4	11755	430	4	12440	440	
						1957	1	14390	3.3	472	1	14990	544				
1165815	22	27	11815	3.7	429	1958	12	11772	3.7	429	12	12312	446	8	11823	427	
						1959	12	11924	3.7	440	11	12130	447	10	12490	456	
						1960	2	10370	3.8	392	2	9950	365	1	15315	531	
						1958	1	15880	3.1	485	1	13750	470				
1167093	45	45	13424	3.7	490	1959	31	13738	3.7	510	31	13204	493	28	13757	510	
						1960	13	12485	3.6	444	12	12538	443	12	13180	474	
						1959	1	14660	4.2	612	1	15640	656				
						1958	6	13117	3.6	478	6	12138	449	4	12350	455	
1169417	1	1	14660	4.2	612	1959	7	11326	3.7	418	7	12731	462	5	12688	466	
						1960	5	14230	3.8	549	5	14142	526	4	13121	479	
						1957	1	14700	3.2	477	1	12590	449				
						1958	12	12518	3.6	448	12	13083	474	9	12294	442	
1170910	17	18	12677	3.7	471	1959	6	10457	3.6	376	5	11904	449	5	12293	442	
						1960	1	14600	3.6	524	1	13550	487	1	14715	554	
						1957	2	9815	3.5	334	2	12240	471	2	11892	441	
						1958	3	12603	3.5	438	3	11613	392	2	12470	445	
1174532	16	20	12251	3.6	434	1959	1	12830	3.5	417	1	13650	515	1	14094	535	
						1958	6	13487	3.7	500	6	12663	469	6	13087	484	
						1957	1	13480	4.4	594	1	11090	397	1	11510	433	
						1956	2	15995	4.0	633	2	14295	563	2	14083	552	
1175466	6	6	11712	3.5	400	1958	4	14928	3.7	547	4	13255	508	4	12519	466	
						1959	6	13487	3.7	500	6	12663	469	6	13087	484	
						1957	2	9815	3.5	334	2	12240	471	2	11892	441	
						1958	3	12603	3.5	438	3	11613	392	2	12470	445	
1175467	12	14	13131	3.7	489	1959	1	12830	3.5	417	1	13650	515	1	14094	535	
						1958	5	14608	3.6	527	5	13188	495	2	11276	419	
						1959	8	12910	3.7	480	8	12179	449	8	12996	475	
						1960	1	10830	3.9	419	1	11510	467	1	11314	419	
1175561	12	13	14110	3.8	536	1956	1	13480	4.4	594	1	11090	397	1	11510	433	
						1957	2	15995	4.0	633	2	14295	563	2	14083	552	
						1958	4	14928	3.7	547	4	13255	508	4	12519	466	
						1959	6	13487	3.7	500	6	12663	469	6	13087	484	
1177441	53	72	11877	3.8	445	1955	1	12430	3.6	452	1	12100	461	1	12938	473	
						1956	6	10982	3.7	396	6	11677	429	1	13603	508	
						1957	22	11119	3.7	411	21	11974	430	17	12077	436	
						1958	26	12277	3.7	457	26	12192	445	19	12167	444	
						1959	14	12179	3.8	466	14	12562	468	11	13142	481	
						1960	3	14120	3.8	534	2	12925	458	2	12426	457	
1177959	22	28	12488	3.8	475	1956	3	12887	4.0	512	2	15370	623	1	11303	336	
						1957	12	12344	3.8	467	12	13745	547	6	11912	424	
						1958	8	12650	3.8	469	8	13686	526	7	13250	496	
						1959	5	11672	4.0	462	5	12966	496	5	12969	497	
1178742	71	94	11822	3.7	437	1956	1	11650	3.8	439							
						1957	9	12930	3.8	486	7	12733	454	8	13177	466	
						1958	46	11882	3.7	437	44	12793	458	22	12160	442	
						1959	34	11494	3.7	429	34	11990	442	28	11968	468	
						1960	4	8133	3.5	286	2	12395	409	2	11691	414	
1179373	1	1	10640	3.3	347	1959	1	10640	3.3	347	1	11140	380		1	12797	440
1179574	16	21	12677	4.0	504	1957	3	11097	4.0	444	3	12587	455	3	12102	441	
						1958	10	13234	4.1	540	10	13746	500	7	13789	514	
						1959	7	12697	3.9	502	7	13564	493	7	13497	501	
						1960	1	13810	3.6	502	1	15650	622	1	13549	508	
1179575	14	16	13219	3.6	478	1957	1	10830	3.5	360	1	11400	418	1	11936	432	
						1958	10	13461	3.7	492	10	13769	509	9	12886	482	
						1959	3	14853	3.6	530	3	13900	497	3	14737	522	
						1960	2	12690	3.5	445	1	14880	518	1	13244	459	
1179895	151	203	12379	3.5	436	1955	1	15260	3.2	483	1	14110	489	1	12688	460	
						1956	23	11999	3.5	423	18	12094	434	5	12132	437	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	48	12215	3.5	430	42	12266	442	36	11877	433
						1958	77	12621	3.5	443	74	12845	460	49	12122	449
						1959	48	12495	3.6	444	46	12462	455	35	12844	468
						1960	6	12595	3.4	430	6	11878	420	6	12430	444
1182696	3	3	15667	3.5	538	1958	1	12710	3.6	458	1	12900	486	1	11554	451
						1959	1	14430	3.6	526	1	13770	515			
						1960	1	19860	3.2	650	1	14650	512	1	13603	505
1182714	1	2	15395	3.8	589	1957	1	14120	3.7	522	1	12600	448	1	12829	479
						1958	1	16670	3.9	655	1	13950	495	1	12917	457
1184848	7	8	14436	4.0	563	1958	2	14070	3.9	538	2	12430	449	1	10976	410
						1959	2	13285	3.9	513	2	13160	475	1	14780	512
						1960	4	15020	3.9	572	4	13400	478	2	12715	480
1186866	106	128	12754	3.7	471	1956	5	13450	3.6	486	5	11610	423	3	12045	425
						1957	17	12436	3.5	442	15	11909	437	15	12349	445
						1958	51	12756	3.7	471	50	12678	458	31	12083	454
						1959	49	12646	3.8	473	47	12491	459	36	12518	457
						1960	6	12978	3.9	498	6	12453	466	4	12178	450
1189010	8	8	13053	3.7	475	1958	1	13350	3.5	470	1	13870	479	1	9610	366
						1959	7	13010	3.7	476	7	13646	512	6	15022	550
1189513	50	64	11994	3.6	433	1957	1	11710	3.4	402	1	13020	453	1	12502	468
						1958	32	12421	3.6	447	32	12976	471	11	11995	456
						1959	29	11985	3.6	434	28	12645	464	25	12715	471
						1960	2	10580	3.4	366	1	10160	354	2	13189	465
1189726	1	1	12380	4.3	527	1958	1	12380	4.3	527	1	10110	427	1	9418	399
1190151	10	10	11848	3.8	448	1959	6	12203	3.8	463	6	11945	439	4	13369	489
						1960	4	11315	3.8	424	4	12420	462	4	12181	445
1190396	147	187	12905	3.5	445	1956	11	12292	3.2	392	7	12090	430			
						1957	45	12526	3.5	431	45	12752	461	41	12080	431
						1958	78	13013	3.5	457	76	13008	472	73	12562	461
						1959	49	13585	3.4	465	49	12634	453	42	13420	482
						1960	4	11295	3.1	349	4	12518	436	4	12797	458
1190889	4	5	13421	3.4	457	1956	2	12325	3.5	420	2	13470	514	1	12600	454
						1957	1	15150	3.4	515	1	14040	518			
						1958	1	13910	3.4	470	1	12150	472	1	12590	472
						1959	1	9530	3.6	347	1	11990	449	1	11794	428
1192779	13	15	12827	3.5	440	1957	3	10787	3.4	367	3	9777	341	3	11459	412
						1958	6	12472	3.5	436	6	12210	429	6	12001	435
						1959	5	12596	3.5	429	5	10692	408	5	12352	459
						1960	1	14380	3.6	522				1	12252	474
1192784	4	5	13365	3.5	460	1957	2	13880	3.4	470	2	13150	449	2	12296	459
						1958	2	12785	3.6	452	2	11150	398	1	10159	342
						1959	1	13000	3.1	398	1	12650	433	1	12186	444
1192892	1	3	16590	3.6	599	1957	2	16850	3.6	614	1	13390	471	1	11576	415
						1958	1	16070	3.5	569	1	14720	488	1	12709	465
1192946	2	2	15705	3.3	513	1959	2	15705	3.3	513	2	14315	510	1	13558	531
1193360	32	45	12949	3.5	452	1957	5	12654	3.6	465	5	12528	456	4	11625	417
						1958	20	13184	3.5	457	20	13249	465	12	12573	456
						1959	17	13489	3.5	472	17	12667	464	15	13636	492
						1960	3	12530	3.5	458	3	11657	410	3	12273	457
1193934	6	6	14393	3.5	494	1958	2	14940	3.2	466	2	12960	460	2	12808	461
						1959	4	14120	3.7	509	4	13100	466	3	12669	441
1194165	1	1	12010	4.0	485	1958	1	12010	4.0	485	1	14210	518	1	13647	493
1194166	7	10	12452	3.9	477	1958	4	11098	4.0	437	4	11428	408	3	11438	422
						1959	5	12440	3.8	473	5	11018	399	4	12132	430
						1960	1	14210	3.9	557	1	11800	409			
1196264	40	52	12247	3.7	453	1957	9	11912	3.6	431	6	12656	457	5	12082	454
						1958	17	12281	3.7	454	17	12874	458	11	11646	419
						1959	16	12221	3.7	456	17	12359	449	11	13585	485
						1960	8	12665	3.5	449	6	13505	519	5	15933	495
1200288	4	4	13465	3.6	491	1959	5	12825	3.5	452	5	12517	446	2	12977	461
						1960	1	15390	4.0	610	1	14950	563			
1202125	1	1	16740	3.5	590	1959	1	16740	3.5	590	1	17220	640	1	17647	640
1202133	22	26	12786	3.6	456	1957	1	14880	3.5	522	1	14290	530			
						1958	14	12954	3.6	470	14	12564	453	12	12295	441
						1959	11	12651	3.5	444	11	12692	461	8	13640	467
1202434	7	8	14469	3.6	515	1958	2	17230	3.5	602	2	15555	551	2	16132	548
						1959	5	15620	3.6	483	5	12658	457	4	13845	507
						1960	1	16190	3.4	547	1	13120	471	1	12437	436
1203114	3	3	13777	3.5	478	1958	1	15120	3.4	510	1	12120	446	1	11194	461
						1959	2	13105	3.6	462	2	13510	515	1	15527	544



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1204557	52	56	13118	3.6	477	1956	1	12660	4.0	507						
						1957	3	12790	3.7	466						
						1958	12	13748	3.6	501	12	14630	523	10	12504	461
						1959	32	12726	3.6	462	32	12512	456	25	13284	487
						1960	6	13538	3.5	476	5	12888	471	5	12598	468
						1961	2	14090	4.2	589	1	12570	445			
1204748	14	20	12066	3.5	422	1956	4	12060	3.4	403	2	15260	551	1	14748	513
						1957	5	12216	3.5	422	3	11040	401	3	10853	373
						1958	6	11975	3.6	432	5	12486	459	5	12406	446
						1959	5	12110	3.7	444	4	11063	415	4	12538	463
1204749	67	92	12376	3.6	446	1956	5	11258	3.6	400	3	11627	417	3	11939	425
						1957	16	11446	3.6	410	14	12199	446	11	11929	438
						1958	37	12855	3.6	463	36	12109	440	30	12410	448
						1959	28	12169	3.6	440	27	11663	429	20	12614	464
						1960	6	10937	3.6	389	6	11452	417	6	11194	418
1205412	2	2	11130	3.8	425	1959	2	11130	3.8	425	2	12485	491	2	13287	523
1210295	2	2	15490	3.5	536	1959	1	14750	3.3	493	1	12690	437	1	14780	512
						1960	1	16230	3.6	578	1	12320	433	1	12786	465
1211183	34	41	12266	3.8	459	1957	1	5830	4.3	249	1	13660	473			
						1958	17	13028	3.9	502	17	13544	489	17	12695	465
						1959	23	11910	3.7	440	22	13408	483	20	13439	484
1213875	96	120	12385	3.6	449	1957	4	14638	3.9	550	4	14880	554	4	13067	441
						1958	63	13140	3.6	470	62	13675	495	37	12662	458
						1959	51	11288	3.7	415	48	12833	469	46	13158	482
						1960	2	10560	3.7	395	2	13675	492	2	13298	473
1214435	9	9	12328	3.9	482	1958	4	12278	3.8	467	4	13400	512	4	12568	496
						1959	5	12368	4.0	494	5	11466	449	5	13287	523
1215792	2	2	10430	3.8	395	1958	1	10310	4.0	415	1	13830	493	1	12557	464
						1959	1	10550	3.6	375	1	8250	291	1	10540	365
1215995	1	2	15915	3.5	557	1958	1	16690	3.4	566	1	12980	507	1	13494	509
						1959	1	15140	3.6	547	1	13030	490	1	13527	524
1216909	2	2	17255	3.4	578	1959	2	17255	3.4	578	2	14285	507	1	15369	554
1216957	13	13	13257	3.6	477	1958	1	17840	3.5	617	1	16130	605	1	14028	464
						1959	9	12972	3.6	466	9	13149	470	4	12979	464
						1960	3	12583	3.7	465	3	12673	474	1	9777	353
1217566	42	48	12726	3.6	456	1957	3	10767	3.4	371	3	11877	428	3	11184	392
						1958	22	13025	3.6	463	22	13510	490	16	11996	456
						1959	19	13115	3.6	478	18	12589	468	15	13748	491
						1960	4	12248	3.6	434	4	13823	484	2	13702	481
1222727	93	105	13550	3.7	503	1957	1	9540	3.7	350	1	11460	413	1	11936	388
						1958	35	14151	3.7	518	35	13595	495	17	12677	460
						1959	63	13226	3.6	496	60	12637	466	51	13463	457
						1960	6	13112	3.5	471	4	13595	500	4	13186	491
1224123	8	9	12197	3.9	470	1958	1	12220	4.0	490	1	14660	516	1	14007	521
						1959	7	12254	3.9	471	7	12739	475	6	12693	467
						1960	1	15830	3.5	550	1	13250	476	1	13451	484
1224313	26	27	13059	3.5	448	1958	12	12656	3.5	433	12	12733	461	12	12068	445
						1959	13	13268	3.5	458	13	12781	477	8	12479	462
						1960	2	14155	3.5	485	2	14530	501	2	13582	467
1225853	1	1	21100	3.9	815	1955	1	21100	3.9	815						
1230109	28	29	14118	3.6	507	1958	5	15968	3.7	598	5	13630	507	4	12873	486
						1959	19	13698	3.6	493	19	12340	442	15	13343	483
						1960	5	12782	3.4	428	3	14450	498	4	13691	494
1230731	12	14	13216	3.4	452	1958	6	13392	3.4	456	6	13603	485	3	12139	433
						1959	7	14490	3.4	458	7	12563	456	7	12616	453
						1960	1	10750	3.5	376	1	12010	452	1	12415	457
1230734	37	40	13423	3.5	468	1958	20	13923	3.4	478	20	13402	479	16	12650	462
						1959	19	13226	3.5	467	19	12801	458	17	12747	450
						1960	1	10660	3.7	392	1	12010	451	1	12415	457
1230743	6	7	11522	3.6	413	1958	5	11830	3.6	424	5	12806	480	2	12072	452
						1959	2	10265	3.9	395	2	12115	431	2	12606	462
1236249	4	4	13103	3.5	452	1958	1	11870	3.4	404	1	12350	451	1	13581	493
						1959	3	13513	3.5	468	2	12585	463	1	12186	448
1237594	5	5	13294	3.7	483	1958	2	13450	3.6	477	1	12580	462	2	12797	454
						1959	3	13190	3.7	488	3	13087	495	2	13652	495
1237666	2	2	8635	3.9	336	1960	2	8635	3.9	336	1	10590	377	2	11979	440
1238318	2	2	11125	3.6	402	1960	2	11125	3.6	402						
1240095	1	2	9525	3.9	366	1958	1	10360	3.9	399	1	11060	408	1	12252	450
						1959	1	8690	3.6	332	1	6590	256	1	11957	446
1240212	21	21	12581	3.5	436	1959	12	12758	3.5	449	12	13128	480	10	13916	509

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'L MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						1960	HOLSTEIN										
							9	12347	3.4	419	7	12016	429		8	13073	467
1243459	6	6	13087	3.3	434	1959	3	13570	3.2	433	3	11943	427		2	12317	446
						1960	3	12603	3.4	435	3	12013	436		3	12379	457
1246450	1	1	14690	3.7	550	1959	1	14690	3.7	550	1	11160	434		1	11173	414
1246729	12	14	11455	4.1	473	1958	3	12813	4.3	546	3	13720	529		3	12902	482
						1959	10	11229	4.1	462	10	11746	459		10	12795	495
						1960	1	7520	3.4	256	1	9610	409		1	9930	415
1251676	5	5	14086	3.6	512	1959	5	14086	3.6	512	5	13460	498		4	13745	508
1261422	5	5	15054	3.5	525	1959	5	15054	3.5	525	5	13274	500		4	13990	487
1262986	1	1	12620	3.9	490	1959	1	12620	3.9	490	1	13340	530		1	14334	565
1264447	5	5	12212	3.6	442	1959	1	13250	3.5	461	1	11020	403		1	10856	400
						1960	4	11953	3.7	437	4	12443	453		2	12661	480
1269042	8	8	12929	3.5	447	1959	3	15240	3.5	536	3	12670	486		3	13741	499
						1960	5	11542	3.4	393	3	13740	472		3	13621	504
1278353	1	1	8580	4.0	343	1960	1	8580	4.0	343					1	14007	507
1279641	4	4	13265	3.6	470	1960	4	13265	3.6	470	4	12898	468		3	12593	468

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
328987	5	13	7450	4.8	361	1947	7	7340	4.8	355						
						1948	3	7790	4.9	380						
						1949	2	8895	4.9	432						
						1951	1	6980	4.8	333						
360310	1	5	7702	6.0	458	1947	2	7615	6.0	453						
						1948	1	6670	6.0	400						
						1949	1	7930	5.9	465						
						1950	1	8680	6.0	520						
361071	8	32	8030	5.1	412	1947	10	8424	5.2	442						
						1948	5	6460	5.0	325						
						1949	2	7010	5.6	407	3	7360	368			
						1950	3	7643	5.0	392	1	7610	423			
						1951	4	8015	5.1	407	3	7657	416			
						1952	1	8080	5.3	426	4	7675	395			
						1953	3	8033	5.2	414	1	7630	375			
						1954	2	8010	4.9	397	3	7573	362			
						1955	1	8400	5.0	419	2	7495	406	2	7303	362
						1956	1	8400	5.0	419	1	7010	350	1	7140	374
						1957	1	4510	4.8	218	1	7170	424	1	7477	376
363039	1	1	8350	6.3	523	1947	1	8350	6.3	523						
371000	1	6	7082	4.9	349	1949	1	7710	4.9	381	1	8070	458			
						1950	1	6720	4.9	332	1	7700	432			
						1951	1	6430	5.0	320	1	7360	413			
						1952	2	6980	4.9	341	2	7510	411			
						1954	1	7670	5.0	381	1	7330	419	1	7281	401
375850	10	39	7365	5.3	384	1947	17	7710	5.3	410	6	6977	384			
						1948	5	6436	5.4	350	3	5567	296			
						1949	4	7595	5.2	396	1	5260	264			
						1951	1	7440	5.1	381						
						1952	5	14346	4.9	611	2	7550	219			
						1953	4	7748	5.4	418	2	7760	411	1	7270	422
						1954	2	5610	5.9	332	1	620	48	1	6780	361
						1956	1	7030	5.1	357				1	6442	362
381856	1	1	5270	6.4	337	1947	1	5270	6.4	337						
386656	1	6	10373	5.6	584	1951	1	8220	5.6	460	1	7150	402			
						1952	1	9340	5.7	528	1	6940	384			
						1953	1	10320	6.1	626	1	7280	410	1	6704	385
						1955	1	10280	5.3	545	1	7740	403	1	7259	379
						1957	1	8540	5.5	471	1	9060	466	1	6976	362
						1958	1	15540	5.6	871	1	9220	511	1	7990	449
390373	6	13	7176	5.4	392	1950	2	8860	5.3	469						
						1951	5	6974	5.6	392	1	9050	517			
						1952	2	8775	5.7	494	1	8690	489			
						1953	2	8175	5.7	462	1	7970	455	1	8557	464
						1954	2	6855	5.7	388	1	8000	454	1	0426	476
392615	1	1	7010	5.5	387	1947	1	7010	5.5	387						
397427	9	18	6931	5.6	384	1947	3	8230	5.7	464						
						1949	2	9240	5.1	469						
						1950	2	8395	5.1	416	1	7590	388			
						1951	4	6115	5.6	342	3	6743	350			
						1952	4	5975	5.9	347	4	5318	273			
						1953	3	6863	5.6	378	3	7260	361	2	5733	299
399328	6	13	7437	6.2	456	1951	1	4720	7.0	329	1	10110	578			
						1952	4	8023	6.1	490	4	8758	509			
						1953	1	5630	6.1	342	1	8430	475	1	8851	513
						1954	2	8795	6.2	540	2	7460	406	2	8393	483
						1955	2	8620	6.1	528						
						1956	3	7830	5.9	466	1	10090	587	1	8633	506
400062	8	19	6701	5.2	341	1947	7	6381	5.2	331						
						1948	6	7015	5.2	356						
						1949	5	8544	4.7	390						
						1950	1	7650	4.3	326						
401669	8	18	7224	5.3	371	1952	2	9230	5.4	499	1	8260	469			
						1953	4	5698	5.6	305	3	7523	401	3	7296	368
						1954	2	9480	5.2	493	1	7530	436	1	8426	476
						1955	4	7645	5.0	395	2	6890	377	3	7256	397
						1956	1	9870	5.5	542				1	8742	505
						1957	3	7633	4.7	356	1	8050	432	1	8012	432
						1958	1	9060	5.5	499	1	8960	484	1	8033	431
						1959	1	6650	5.7	376	1	9430	473	1	9189	506
402215	3	8	5788	5.3	307	1947	6	6103	5.2	319						
						1948	2	4280	5.7	243						
404667	3	3	6733	6.2	420	1950	2	6875	6.0	415						
						1951	1	6450	6.7	430						
406575	3	5	6035	6.1	371	1949	1	7170	6.5	464						
						1950	3	5583	6.1	344						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY DKEED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.					
						1951	JERSEY 1	5930	5.7	337											
408306	5	24	6178	5.6	341	1948	3	6077	5.6	336		1	6340	350							
						1949	4	5015	5.7	286	1	5410	301								
						1950	3	7693	5.2	403	2	7400	395								
						1951	3	8060	5.4	432	2	6900	373								
						1952	2	5890	5.6	330	1	6470	336								
						1953	2	7345	5.3	388	2	6740	334	2	6496	341					
						1954	2	7675	5.6	425	2	6500	347	2	6780	361					
						1955	2	7495	5.5	409	2	7540	383	2	6398	349					
						1956	1	8550	5.6	481	1	6850	351	1	7063	378					
						1957	1	8870	5.3	467	1	7550	426	1	6355	348					
						1958	1	9540	5.2	495	1	7030	417	1	7576	423					
408564	3	10	8380	5.5	463	1951	1	8560	5.2	448	1	7400	432								
						1952	2	8715	5.7	497	1	6490	366								
						1953	2	7845	5.7	441	1	7260	393	1	6573	346					
						1954	1	8580	5.3	458											
						1955	1	8610	5.0	429											
						1956	1	6350	5.2	327											
						1957	2	7895	5.4	427											
409332	5	5	7378	5.2	383	1953	2	5795	5.4	315											
						1954	1	6960	4.7	327											
						1959	2	9170	5.3	479	2	7475	391	2	8829	456					
410962	16	35	6799	5.5	370	1949	1	4000	5.0	198											
						1951	4	6698	5.2	350	1	7460	366								
						1952	8	6409	5.5	352	4	7513	381								
						1953	6	6885	5.6	389	5	7114	377	2	6911	355					
						1954	4	6415	5.4	348	4	7058	363	3	7071	355					
						1955	4	6838	5.3	359	3	7160	360	3	7103	364					
						1956	2	5690	5.0	282											
						1958	3	8383	5.0	420	2	8030	451	2	8246	469					
						1959	2	7955	4.9	396	1	8260	474	1	8873	507					
						1960	1	6750	4.7	314											
						412781	5	13	6641	5.4	358	1949	1	5500	6.1	335					
1950	2	7625	5.5	408	1							7640	389								
1951	4	6758	5.4	366	1							6430	324								
1952	3	6090	5.4	327	1							6320	328								
1953	1	6310	5.6	352																	
1954	1	6850	5.7	393	1							6940	403								
1955	1	5650	5.2	294	1							7180	415	1	7150	423					
414381	1	1	6420	5.6	360	1954	1	6420	5.6	360	1	7340	425								
414388	9	46	7508	5.4	405	1949	1	5990	5.8	349											
						1950	5	8130	5.5	448	1	8530	421								
						1951	10	7267	5.7	410	5	8088	416								
						1952	9	8051	5.3	423	5	7532	366								
						1953	8	7414	5.3	393	3	8103	395	3	7746	409					
						1954	9	7390	5.3	394	4	7775	382	4	7876	367					
						1955	4	6855	5.5	360											
416764	6	10	7594	4.8	363	1949	1	8710	5.0	435											
						1950	1	8920	4.4	392											
						1951	3	7035	4.9	339	1	7000	366								
						1952	2	6370	4.6	293	1	6590	334								
						1953	2	8565	4.9	404	2	6910	369	2	7674	348					
						1954	1	7010	4.8	335	1	8040	398	1	7946	421					
416938	5	14	6310	5.5	341	1948	3	6407	5.3	341	1	6860	361								
						1949	4	5753	5.6	316	1	5220	276								
						1950	1	7070	5.0	355	1	8560	427								
						1951	1	7880	5.0	392	1	8400	456								
						1952	3	5757	5.4	310	3	7000	369								
						1954	1	7920	5.6	446	1	6670	373	1	6780	366					
						1955	1	6830	5.5	378	1	5670	309	1	6540	371					
421058	1	3	7430	5.0	375	1958	1	7730	4.8	373	1	6920	370	1	7804	404					
						1959	1	7360	5.3	393	1	7080	391	1	7728	411					
						1960	1	7200	5.0	358	1	7140	365	1	7314	368					
421181	1	4	4875	5.7	277	1950	1	5530	5.5	293	1	8770	433								
						1951	1	3470	5.7	197	1	7010	339								
						1952	1	5360	6.0	320	1	6790	332								
						1953	1	5340	5.5	296	1	6920	323	1	8698	382					
426463	18	40	7699	5.3	397	1950	1	5850	4.7	274											
						1951	8	7204	5.4	386	1	7710	441								
						1952	10	7776	5.2	402	4	6955	356								
						1953	7	7376	5.4	393	4	7415	377	3	7016	368					
						1954	4	6468	5.5	347	3	6623	351	2	6758	360					
						1955	4	7318	5.5	400	2	7875	376	1	6598	349					
						1956	1	6900	5.4	373											
						1957	1	6180	5.8	361											
						1958	1	13750	3.9	540	1	8660	460								
						1959	2	11490	4.7	533	2	8680	468	1	9309	498					
						1960	1	10880	5.0	542	1	7560	402	1	9145	477					
426702	1	1	11580	4.7	544	1959	1	11580	4.7	544											
426783	13	25	6024	5.3	312	1950	12	6254	5.3	323											

TABLE 15.—DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY BREED,  
BY YEAR OF FRESHENING—RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVG. MILK LB.	AVERAGE FAT LB.	
						JERSEY											
426784	14	31	7324	5.6	410	1951	7	6706	5.1	339							
						1952	5	7048	4.8	359							
						1953	1	5950	4.6	276							
						1953	3	8093	6.0	482		1	7530	500	1	7641	414
						1954	10	7033	5.5	384		6	7590	586	6	7679	411
						1955	7	8744	5.5	477		3	7930	453	3	8037	458
						1956	5	7614	5.5	418							
						1957	2	8005	5.0	384							
						1958	1	9000	6.0	544							
						1959	2	9460	5.0	457							
1960	1	10520	4.6	481													
426851	1	4	6370	4.8	304	1949	1	4810	5.2	249							
						1950	1	6960	4.6	320		1	6960	355			
						1952	1	6510	4.7	304		1	6560	329			
						1953	1	7200	4.7	341		1	6670	350	1	7194	359
427546	5	11	8076	5.1	407	1952	3	8520	5.3	454		1	6570	428			
						1954	4	7705	5.3	406		2	9270	515	2	9439	495
						1955	2	5980	5.2	509							
						1958	1	9950	4.2	414		1	6340	334	1	7586	385
						1959	1	9570	4.5	407		1	6660	350	1	7107	365
428734	1	4	10208	4.7	483	1952	1	9500	4.6	441		1	8190	483			
						1953	1	9350	4.7	441		1	7870	419	1	7641	414
						1954	1	11050	4.9	537		1	7840	449	1	8153	459
						1955	1	10950	4.7	512		1	8690	470	1	8001	450
429684	43	90	6845	5.5	377	1952	4	5400	5.6	296		2	6955	359			
						1953	19	6750	5.5	371		11	6540	352	6	6816	358
						1954	21	6680	5.6	374		14	6912	377	11	7182	390
						1955	10	6658	5.9	369		7	7160	385	5	7142	388
						1956	8	6833	5.9	401		5	6628	357			
						1957	7	6551	5.5	366		4	6925	375	4	7140	385
						1958	12	7302	5.5	396		9	7824	407	6	6747	377
						1959	7	7754	5.3	407		6	7533	385	5	7994	429
						1960	2	8325	5.0	417		1	7400	368	1	7532	382
						430288	6	12	6469	5.5	352	1952	2	6880	5.4	364	
1953	4	7260	5.2	375								4	7558	386	3	6805	371
1954	2	6615	5.8	383								2	6805	362	2	7467	413
1955	2	6330	5.8	372								2	6760	374	2	6856	364
1956	2	7915	5.5	450								2	7170	407	2	7870	459
431207	13	36	7374	5.4	394	1951	3	7493	6.0	447		2	7075	409			
						1952	5	7460	5.6	419		4	7608	412			
						1953	11	7068	5.4	379		6	7158	367	6	7421	363
						1954	4	6866	5.3	376							
						1955	6	7378	5.8	432		3	7153	394	3	7256	397
						1956	3	8380	5.5	463		1	7990	458	1	8742	505
						1957	2	8415	5.3	442							
						1958	1	11080	4.9	546							
						1959	1	11020	5.0	552							
433561	3	12	5769	5.9	339	1948	2	5440	6.0	324							
						1949	2	5175	6.2	319							
						1950	2	6330	5.9	372							
						1951	1	7470	5.8	432							
						1952	1	6580	5.6	371							
						1953	1	6600	5.7	373							
						1954	1	6580	5.4	357							
						1955	1	5310	5.5	295							
						1956	1	7160	5.6	400							
434226	1	1	8580	5.2	448	1955	1	8580	5.2	448							
434560	3	9	8264	5.2	434	1950	2	7180	5.1	362		2	7360	380			
						1951	2	7740	5.5	423		1	6950	360			
						1952	2	8705	5.2	450		2	6920	356			
						1953	2	8890	5.1	450		2	6545	345	2	7358	378
						1954	1	6100	5.0	302		1	6550	329	1	7467	380
434694	1	1	8270	5.3	436	1951	1	8270	5.3	436							
438118	4	6	6654	5.0	334	1949	2	7910	5.0	391							
						1951	1	4890	5.2	255							
						1953	1	5940	5.1	305		1	5620	243			
						1954	1	5840	5.0	293		1	5860	268	1	5821	294
						1955	1	5940	5.0	296		1	5620	276	1	5341	286
438165	14	18	7313	5.3	386	1953	3	7287	5.3	390		1	5740	272	1	6867	318
						1954	8	6805	5.2	359		6	6640	341	6	7310	376
						1955	2	7595	6.0	452		1	7660	405	1	6932	352
						1958	2	7925	5.4	425		1	8070	437	1	8131	451
						1959	2	9035	5.3	476		2	8410	449	1	8022	453
						1960	1	5550	4.1	227							
438400	1	2	9125	4.5	408	1959	2	9125	4.5	408		1	8050	416	1	9069	476
439203	11	36	8450	5.0	422	1950	2	9565	4.6	434		1	8190	410			
						1951	3	8587	5.0	451		2	8230	476			
						1952	9	8969	5.0	449		5	7450	394			
						1953	7	8644	5.0	440		3	7410	405	3	8702	460
						1954	6	8197	5.2	427		3	7050	385	3	8019	440



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
JERSEY																
						1955	5	8388	5.1	432	1	7980	467	1	6055	462
						1956	1	6550	5.7	372						
						1957	1	7640	6.1	464						
						1958	1	7120	5.4	387						
						1959	1	8100	4.6	369	1	7880	440			
439204	13	56	7030	5.6	395	1947	2	7685	5.8	442						
						1948	6	6967	5.5	387						
						1949	6	7283	5.7	414						
						1950	8	7073	5.7	406						
						1951	8	7020	5.9	411						
						1952	6	6817	5.8	384						
						1953	7	8227	5.6	463						
						1954	7	7379	5.6	407						
						1955	3	8417	5.2	440						
						1956	2	8115	5.4	434						
						1957	1	9050	5.2	472	1	9780	482			
439641	2	2	6670	4.8	324	1954	2	6670	4.8	324	1	6340	293	1	6605	312
439930	1	1	6320	5.5	347	1959	1	6320	5.5	347	1	7250	376			
440103	1	1	10340	5.1	530	1959	1	10340	5.1	530	1	8190	424			
440663	1	3	9463	4.8	453	1953	1	8860	5.0	440	1	6960	366	1	7674	403
						1954	1	9230	4.6	427	1	8490	438	1	7445	380
						1955	1	10300	4.8	493	1	8600	441	1	6714	347
440931	1	3	6690	5.2	345	1950	1	6000	5.2	311	1	7150	357			
						1951	1	6600	5.3	352	1	6360	320			
						1952	1	7470	5.0	373	1	6660	328			
441066	7	28	8136	5.4	445	1951	2	10335	5.5	569	1	9610	558			
						1952	5	9072	5.5	499	2	9315	541			
						1953	5	8200	5.6	461	3	7130	388	3	8477	470
						1954	4	9956	5.5	554	2	7265	404	2	8393	483
						1955	3	7417	5.5	395						
						1956	3	8747	5.6	485	1	9540	553	1	8633	506
						1957	2	8280	5.8	473						
						1958	2	8915	5.4	485						
						1959	2	8510	5.5	463	1	10210	571	1	10377	574
441250	6	11	6478	4.8	310	1950	1	4850	4.9	237						
						1951	2	5705	4.2	240						
						1952	3	6150	4.4	272						
						1953	2	6605	4.9	324						
						1954	1	5010	5.2	260						
						1958	1	8630	5.5	461	1	7940	439			
						1959	1	7930	5.0	394	1	7970	428	1	9309	498
441751	11	46	7172	5.0	358	1947	3	6170	4.8	295	2	6810	362			
						1948	9	7044	5.0	346	5	7932	434			
						1949	9	7626	5.2	392	4	9468	494			
						1950	8	6974	5.1	349	6	7573	395			
						1951	7	7216	5.0	358	4	7430	393			
						1952	6	7523	4.9	370	5	6704	349			
						1953	2	7565	5.2	389	2	7900	419	2	8284	433
						1954	2	6615	5.2	343	2	7450	415	2	8491	450
445150	1	2	7925	5.7	447	1958	1	9120	5.6	512	1	7410	425	1	8894	484
						1959	1	6730	5.7	361	1	9180	483	1	9494	530
446955	2	6	5525	5.3	287	1951	1	7290	5.1	372	1	7360	361			
						1952	1	4160	5.7	238	1	7450	413			
						1953	1	7850	4.6	379	1	7420	351	1	6813	331
						1954	1	5980	4.7	281	1	6790	324	1	7216	339
						1955	1	7340	5.0	368	1	7530	350	1	7467	359
						1956	1	5990	4.7	282	1	6560	310	1	7445	360
448023	2	5	7112	4.6	319	1951	1	7960	4.8	381	1	7230	364			
						1952	2	6690	4.6	300	2	7150	359			
						1953	2	6415	4.6	285	2	6860	355	2	7270	367
449470	8	15	7672	5.3	410	1954	4	7835	5.5	435	3	7620	441	3	6426	476
						1955	5	7516	5.4	408	5	7802	425	5	7381	396
						1956	4	7855	5.1	401	2	7620	399	2	8197	422
						1957	2	7470	5.1	372	1	7860	411	1	8371	436
449541	1	1	3940	6.0	237	1959	1	3940	6.0	237	1	5520	301			
449719	3	6	8038	5.4	434	1953	1	8410	5.2	436	1	7430	387	1	7892	404
						1954	1	6820	5.9	403						
						1956	1	8120	4.7	336						
						1957	1	6810	5.0	359						
						1958	1	8210	5.3	438	1	6740	474			
						1959	1	10820	5.4	588	1	7650	434			
450797	6	19	7361	5.2	383	1953	7	7581	5.0	383	7	7106	384	7	6573	346
						1954	4	6773	5.2	350	4	6875	371	4	7467	413
						1955	5	7126	5.3	383	5	6478	361	5	6856	364
						1956	3	7757	5.9	464	3	7153	404	3	7870	439

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
JERSEY																	
451848	2	4	5750	5.2	302	1957	1	6740	5.5	369	1	7450	386	1	7477	397	
						1958	1	3810	4.8	181	1	7390	402	1	7804	404	
						1959	1	8510	5.6	477	1	7000	386	1	7728	411	
						1960	1	7820	5.4	419	1	7690	360	1	7514	388	
452338	29	53	7420	5.1	376	1952	5	7404	5.2	386	2	7950	429				
						1953	9	6766	5.3	351	8	7213	386	3	7234	377	
						1954	10	6915	5.1	351	7	6940	379	4	7099	393	
						1955	5	8082	5.0	401	3	7223	395	1	7303	362	
						1956	3	7267	4.8	349	2	7505	385	1	7412	380	
						1957	6	8112	5.1	407	4	8628	456	1	6791	375	
						1958	7	7846	5.3	416	7	7947	417	5	7687	404	
						1959	6	9072	5.1	455	6	7815	422	5	8365	440	
						1960	2	9330	4.7	422	2	7165	393	2	8230	433	
452342	14	31	6759	5.7	381	1953	8	6338	5.6	356	6	6542	339	5	6915	356	
						1954	7	7013	5.5	377	5	8010	421	5	7157	381	
						1955	2	6265	5.3	324	2	7810	415	2	6627	359	
						1956	3	7893	5.2	404	3	7357	375	2	7412	380	
						1957	3	8240	5.3	430	2	7655	411	1	7695	395	
						1958	4	7625	5.9	445	4	7745	410	3	7318	411	
						1959	3	6800	5.8	396	3	7773	432	3	8575	475	
						1960	1	7810	5.7	445	1	7950	439	1	8273	469	
452574	7	14	7142	5.4	387	1952	1	8100	5.5	449	1	8820	498				
						1953	3	7090	5.8	407	3	8093	445	2	8099	449	
						1954	4	6760	5.6	382	3	7983	425	3	7626	416	
						1955	2	5550	4.9	273	2	7235	395	2	7439	369	
						1956	1	6100	4.9	300	1	8600	439	1	8066	428	
						1957	1	10040	4.7	474	1	9290	481				
						1959	2	9565	4.9	472	1	7450	375	1	7968	409	
454049	8	14	6066	5.4	328	1951	1	6090	5.4	327							
						1952	4	6683	5.4	354	3	6880	355				
						1953	4	6615	5.5	363	2	8470	452	2	7189	391	
						1954	2	6100	5.3	324							
						1955	2	5780	5.4	311	1	7370	377				
						1956	1	7560	5.3	399							
454147	1	1	6540	5.8	379	1956	1	6540	5.8	379							
454188	8	15	7240	5.2	372	1954	1	7670	5.5	422	1	7000	404				
						1955	1	5890	5.6	331	1	6210	319	1	6300	328	
						1957	5	7598	5.1	385	5	7422	392	4	7099	390	
						1958	3	7523	5.1	385	3	7713	401	3	7521	403	
						1959	3	8437	5.1	437	2	7210	405	2	7259	402	
						1960	2	7215	5.2	368	2	6420	327	2	7036	372	
454720	4	10	8227	4.9	399	1951	1	8340	5.0	420	1	10070	492				
						1952	3	9230	4.9	449	1	10440	435				
						1953	2	8225	5.0	411							
						1954	2	7160	5.1	365							
						1955	1	6250	4.3	270							
						1958	1	8350	4.5	376							
455845	19	38	7556	5.5	412	1957	4	7678	5.9	450	4	8490	462	1	7477	397	
						1958	16	7809	5.5	426	14	7821	418	7	7817	420	
						1959	14	7844	5.5	433	12	7232	382	11	7994	431	
						1960	4	8048	5.1	412	3	6503	342	4	8159	432	
457554	2	6	5847	5.2	304	1949	1	5300	5.3	280							
						1950	1	6970	5.4	375							
						1951	2	6495	5.0	324							
						1952	2	4910	5.3	259							
458347	1	2	6380	4.8	308	1951	1	7100	4.8	343	1	6570	279				
						1952	1	5660	4.8	273	1	6670	306				
460440	10	17	7783	5.2	395	1953	7	7856	5.3	405	3	7697	417	3	8281	451	
						1954	3	9443	5.1	470	1	7840	446	1	8426	476	
						1955	2	8080	4.7	380	1	8660	486	1	8055	462	
						1956	2	7195	5.6	401	1	8210	426	1	8742	505	
						1958	2	9265	4.5	412							
						1959	1	7090	5.0	355							
460676	12	14	8196	5.2	426	1958	2	9645	4.8	464	1	8830	460	1	7826	421	
						1959	4	7603	5.3	394	3	7787	403	1	9494	530	
						1960	8	8290	5.3	435	6	9042	484	7	8835	467	
460686	2	4	8849	5.2	450	1955	1	6680	5.4	359							
						1956	1	6576	6.1	403							
						1957	1	7110	6.0	424							
						1958	1	10910	4.6	505	1	8840	460				
461327	1	2	8365	5.3	438	1956	1	8100	5.2	420							
						1957	1	8630	5.3	456							
462828	2	2	7550	5.7	421	1953	1	6800	6.5	442	1	8020	453	1	8557	484	
						1954	1	8300	4.8	399							
463576	5	7	6876	5.6	384	1954	1	9010	5.1	460							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
						1956	2	6245	5.7	358						
						1957	1	8690	5.7	496						
						1958	1	8070	5.8	472						
						1959	2	5930	5.8	341						
465377	2	3	7563	5.2	386	1953	2	7020	5.2	363	1	6960	411			
						1954	1	8920	5.0	443	1	7030	414			
465708	1	1	9110	4.6	423	1958	1	9110	4.6	423	1	9790	505	1	8644	451
466294	1	1	5050	5.3	270	1959	1	5050	5.3	270	1	9550	408			
466643	5	7	10161	5.2	527	1958	2	9305	5.2	480						
						1959	3	10597	5.1	536	1	8790	457			
						1960	2	10320	5.3	547	1	7760	405	1	8491	457
470112	1	1	6670	5.5	367	1959	1	6670	5.5	367						
472114	3	5	9454	5.1	475	1958	2	7060	5.4	382	1	8690	449	1	7826	421
						1959	2	10440	5.0	513	1	7980	450	1	8404	457
						1960	1	8330	5.2	434	1	8850	476	1	8166	439
472835	1	3	5393	6.0	328	1951	1	6010	6.1	367	1	6120	320			
						1952	1	5640	6.4	362	1	6250	333			
						1953	1	4530	5.6	254	1	6940	348	1	6845	361
474826	1	2	8625	5.6	478	1958	1	7650	5.4	410						
						1959	1	9600	5.7	545						
475546	1	3	8547	5.9	504	1957	1	7950	5.8	457	1	8510	469	1	7761	433
						1958	1	8220	6.3	518	1	7520	429	1	8131	451
						1960	1	9470	5.7	536	1	8960	511	1	9156	511
475680	7	7	6600	5.2	342	1957	1	4120	6.2	255	1	8190	448	1	8371	440
						1958	3	7663	4.7	363	1	8940	465	1	7826	421
						1959	2	5830	5.0	291						
						1960	1	7430	6.3	469						
477784	1	4	6363	5.8	366	1952	1	6830	5.5	373						
						1953	1	6090	6.2	378						
						1954	1	6990	5.8	406						
						1956	1	5540	5.5	307						
478616	5	6	7459	5.2	387	1955	2	8290	5.7	461	1	9210	500	1	8001	450
						1957	1	9590	4.4	426						
						1958	1	5760	5.3	308	1	6530	368	1	6224	379
						1959	1	4090	4.7	194	1	2330	126	1	5897	315
						1960	1	6200	5.3	326						
478650	1	2	12525	5.1	638	1959	2	12525	5.1	638	1	8800	469	1	8415	452
478718	3	7	6329	4.9	309	1956	1	4340	4.7	206	1	6870	332	1	6311	318
						1957	3	6570	5.0	327	3	7017	363	3	6551	346
						1958	2	7045	4.7	331	2	7965	416	2	7238	371
						1959	1	5280	5.0	264	1	8100	416	1	6960	461
478724	3	4	5623	5.3	301	1958	3	6067	5.2	322	3	7053	382	1	7804	404
						1959	1	5680	5.7	325	1	6830	360	1	7467	409
479081	1	4	10563	4.9	518	1952	1	9760	5.0	488	1	7440	402			
						1954	1	11500	5.2	603	1	7060	403	1	7281	401
						1955	1	10150	4.9	499	1	7740	406	1	7259	399
						1956	1	10840	4.4	480	1	7230	391			
479243	2	4	8700	5.3	458	1958	2	9750	5.2	506	1	8850	459	1	7826	421
						1960	2	8570	5.4	463	2	8490	435	2	7739	412
481614	5	7	4962	5.9	292	1954	4	4828	5.9	283	1	6640	331	1	7467	360
						1955	1	5670	5.8	327	1	6750	346	1	6584	352
						1956	1	4700	6.3	296	1	6130	386			
						1957	1	6130	5.9	364	1	6620	379	1	6649	389
484914	4	8	8396	5.4	453	1955	1	7440	4.9	366	1	7650	408	1	6932	352
						1956	1	6900	5.5	361	1	7510	377	1	8753	443
						1957	2	8950	5.7	506	1	8180	446	1	7652	407
						1958	2	10560	5.7	594	1	8520	452	1	8894	484
						1959	2	8320	5.3	440	1	8820	460	1	9494	510
484992	15	30	7249	5.4	588	1952	5	7408	5.3	385	3	6480	327			
						1953	5	6140	5.4	329	4	6473	331			
						1954	5	7924	5.4	428	2	6395	332	3	6921	355
						1955	3	6027	5.4	326	1	6440	325	1	6300	328
						1956	2	5505	6.0	321	1	6180	320	1	6311	338
						1957	3	6320	5.0	316	3	7000	364	3	6780	353
						1958	3	7943	5.4	427	3	7237	394	2	7804	404
						1959	3	7853	5.4	425	3	8050	433	2	8517	455
						1960	1	8780	5.4	476	1	7840	426	1	9145	477
486157	11	16	6868	5.5	370	1956	1	7620	4.8	367	1	6130	323	1	6311	338
						1957	3	6443	5.7	357	3	7747	411	1	6791	375
						1958	6	6758	5.2	345	5	7098	368	5	6952	368
						1959	5	7672	5.4	415	5	7150	373	5	7815	401
						1960	1	6880	5.2	356	1	7070	357	1	6573	342
493505	11	21	8780	5.2	452	1957	2	5735	5.4	308	1	8190	449	1	8371	440
						1958	7	10234	4.9	489	4	8610	455	4	7826	421
						1959	9	9246	5.2	483	5	7284	403	2	9069	476

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						JERSEY										
						1960	3	8517	5.4	455.	2	8615	442	2	7739	412
496820	1	2	3805	5.5	209	1959	1	4870	5.6	272						
						1960	1	2740	5.3	146						
498154	1	1	7570	5.5	417	1959	1	7570	5.5	417	1	7110	409			
499207	2	3	10730	5.2	553	1958	1	9550	5.4	516	1	9400	480	1	8502	489
						1959	1	11670	5.0	587	1	8750	477	1	10192	548
						1960	1	10030	5.2	520	1	9120	479	1	8916	472
500001	5	6	6749	5.2	346	1956	1	3940	6.1	241						
						1958	2	7265	5.1	370	2	6880	358	2	7270	390
						1959	3	7657	4.9	377	3	6670	350	3	7692	399
502114	7	7	7514	4.9	360	1959	5	7612	5.0	376	5	8110	435	2	8404	457
						1960	2	7270	4.6	319						
502220	2	2	7850	5.0	387	1959	2	7850	5.0	387	1	8010	439			
503160	2	2	7960	4.8	380	1959	1	7740	5.0	384	1	8410	436			
						1960	1	8180	4.6	375	1	8500	448			
503535	2	2	9725	5.2	502	1959	2	9725	5.2	502	2	8110	420			
503552	6	21	8032	5.0	398	1952	5	8136	5.0	401	5	7678	403			
						1953	6	8342	5.1	417	6	7613	390	6	7152	409
						1954	4	7925	5.1	400	3	7980	408	4	7960	400
						1955	4	7545	5.0	370	4	8435	438	4	7726	398
						1956	2	7065	4.7	335	2	8075	401	2	8131	413
504455	2	2	5815	5.4	313	1952	1	5230	5.1	267						
						1953	1	6400	5.6	359	1	5440	314	1	7728	411
506331	28	42	7375	5.5	406	1957	3	8820	5.1	451	3	8047	428	3	8771	446
						1958	10	6859	5.7	388	9	7867	407	8	8027	423
						1959	22	7489	5.6	417	20	7688	402	14	7825	419
						1960	7	7641	5.2	398	7	7815	412	7	8043	424
506502	21	25	8099	5.4	436	1958	3	10347	5.1	530	3	8557	461	3	8193	443
						1959	12	7845	5.5	428	9	7378	396	8	7802	418
						1960	10	7822	5.3	420	8	9246	481	8	8871	474
506697	1	1	4110	5.5	227	1960	1	4110	5.5	227						
507639	1	2	9080	5.1	462	1958	1	9220	5.2	479						
						1959	1	8940	5.0	445						
507867	6	11	6781	5.8	390	1956	1	7570	6.5	491	1	5550	317			
						1957	3	6520	6.0	399	3	7157	397	3	6507	371
						1958	3	6113	5.2	316	3	7233	366	3	7005	361
						1959	2	7170	5.0	356	2	7285	369	2	7303	372
						1960	2	7050	5.5	391	2	6150	309	1	7499	402
512545	1	1	9230	5.8	536	1959	1	9230	5.8	536	1	8200	421			
516001	1	2	5420	5.8	316	1958	1	5950	6.0	360	1	7290	408	1	7619	431
						1959	1	4890	5.6	272	1	5420	298	1	7259	402
516302	1	2	9750	4.5	431	1958	1	9050	4.5	406						
						1959	1	10450	4.4	455						
517080	5	7	6796	5.2	350	1954	2	7615	5.5	418	1	7650	439	1	8589	507
						1955	1	7330	5.2	383						
						1956	3	6720	5.0	335	2	6420	337			
						1957	1	6530	5.3	343						
517081	9	14	6917	5.5	378	1953	1	7100	5.3	378						
						1955	1	4880	5.7	277	1	7270	370			
						1956	1	7660	5.5	420	1	8560	455	1	7412	380
						1957	3	8620	5.8	501	2	7450	399	2	7434	388
						1958	4	6113	5.4	324	4	7238	378	3	6703	361
						1959	2	6340	5.5	351	2	5770	307	2	7150	380
						1960	2	7305	5.6	405	2	8465	416	2	7238	380
517082	5	5	6270	5.2	333	1955	2	4695	4.6	221	2	7510	388			
						1958	1	5780	4.6	278	1	6070	327	1	6943	372
						1959	2	8090	5.8	472	2	7260	391	1	6845	380
519826	1	2	6785	4.6	311	1958	1	8870	4.7	414	1	7130	405			
						1959	1	4700	4.4	207	1	6630	347	1	7695	405
521598	15	16	8060	5.3	426	1958	2	7980	5.2	406	2	6715	339	2	7270	390
						1959	8	7450	5.4	400	3	7550	402	2	8056	442
						1960	6	8733	5.3	459	5	8538	465	5	8273	456
522014	3	3	6257	5.6	357	1954	1	4700	5.3	250	1	6120	321			
						1959	2	7035	5.8	411	1	7880	426			
524581	2	4	8795	5.7	491	1958	1	7480	6.0	451	1	8220	442			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
						1959	3	8237	5.9	480	2	9085	487	2	9772	523
529355	1	1	9790	5.4	527	1956	1	9790	5.4	527	1	9330	436	1	8676	400
534119	3	3	5850	5.3	306	1959	2	5195	5.5	281	2	5370	297			
						1960	1	7160	5.0	357	1	7350	400			
534366	11	21	7158	5.0	357	1954	2	6500	5.5	355	2	7210	396	2	7935	454
						1955	4	6800	5.4	368	4	6893	370	4	7439	406
						1956	4	7188	5.2	370	3	8607	458			
						1957	2	7235	5.2	374	2	8360	452	2	6704	357
						1958	4	8433	5.2	436	3	8803	489	2	7778	427
						1959	3	7990	4.8	382	3	7843	400	3	8022	420
						1960	2	6605	4.7	308	2	7270	412	2	7205	366
538337	16	30	8328	5.5	459	1956	1	4740	5.9	279	1	7140	367	1	8142	445
						1957	5	8282	5.6	461	5	8282	456	5	7761	433
						1958	9	7786	5.6	431	8	8051	455	8	8131	451
						1959	14	8542	5.6	476	14	8712	483	14	8022	433
						1960	1	8110	6.1	494	1	8680	491	1	9156	511
540148	20	34	7459	5.5	408	1956	1	8200	5.4	440	1	10070	512	1	7412	360
						1957	2	5740	5.3	297	2	8110	434	1	7695	393
						1958	10	7417	5.8	426	9	7511	403	6	7565	406
						1959	15	7640	5.6	424	11	7926	416	9	8183	437
						1960	6	7812	5.3	415	5	8520	431	5	8319	450
540179	1	2	7310	4.9	354	1957	1	7890	4.7	369	1	7270	368	1	6791	375
						1959	1	6730	5.0	338	1	7470	401	1	7477	376
542648	1	1	7310	6.0	441	1960	1	7310	6.0	441	1	7990	439	1	8273	469
542650	8	14	6940	5.5	377	1958	1	7030	5.9	412	1	8340	459	1	7619	431
						1959	10	6845	5.5	371	8	7439	393	8	7607	405
						1960	3	7327	5.0	369	2	8180	390	3	7815	404
546648	3	3	7823	5.1	387	1958	1	7280	5.2	377	1	8040	407	1	8306	427
						1959	1	5600	5.7	321	1	6320	340	1	6845	380
						1960	1	10590	4.4	464	1	7550	381	1	7292	385
546672	10	16	7322	5.6	401	1958	2	7020	5.5	368	2	9060	469	2	8666	438
						1959	10	7852	5.5	429	7	7986	420	7	8420	443
						1960	4	5423	6.0	312	2	6885	365	1	9189	506
546917	8	13	7673	5.3	403	1956	1	6390	4.9	315	1	5400	273	1	6311	338
						1957	2	9425	4.6	449	2	7140	396	2	6540	360
						1958	5	7584	5.4	410	5	7546	385	5	6891	366
						1959	4	7615	5.5	417	4	7450	390	4	8172	426
						1960	1	4690	5.5	256	1	7860	388	1	7532	382
547753	10	10	6845	5.1	348	1959	5	7382	5.0	371	4	8188	416	3	8350	430
						1960	5	6308	5.2	325	4	7350	374	5	8197	453
548280	17	24	7735	5.1	390	1958	10	8554	5.1	432	10	7466	400	10	7857	424
						1959	11	7536	5.2	391	10	7598	412	11	8226	437
						1960	3	5977	5.1	299	3	5850	317	3	7423	407
549518	6	10	7905	5.2	407	1957	1	6730	5.6	376	1	10000	474	1	7554	383
						1958	2	7395	5.3	389	2	8355	447			
						1959	6	8162	5.0	408	5	7786	418	3	8230	435
						1960	1	8830	4.6	410						
550196	1	1	6420	6.1	394	1959	1	6420	6.1	394						
550723	1	1	7320	5.2	381	1960	1	7320	5.2	381	1	7390	351	1	6704	342
552060	16	22	7244	5.5	397	1958	6	8172	5.4	440	4	8273	428	5	8084	426
						1959	11	7591	5.5	415	10	7711	410	9	8577	461
						1960	5	6614	5.5	369	5	6586	344	5	7776	422
552599	20	29	7638	5.1	389	1957	1	5950	4.6	275	1	10520	580	1	9418	470
						1958	11	7385	5.2	384	9	7707	420	8	7990	435
						1959	13	8228	5.2	421	10	7458	387	5	8205	440
						1960	4	7335	5.2	378	4	8080	419	4	7412	395
553507	2	2	5805	5.6	324	1959	2	5805	5.6	324	2	9485	446	2	8661	454
557267	6	8	7901	5.2	409	1958	3	7537	5.2	386	2	5690	307	1	8676	488
						1959	3	7570	5.5	415	3	7927	403	2	10110	490
						1960	2	7465	5.0	376	2	7455	412	2	8889	403
557268	7	10	7071	5.8	409	1958	2	3590	6.4	229	1	5560	296	1	8676	488
						1959	7	8557	5.7	469	5	8858	447	4	8963	449
						1960	1	5760	5.6	323	1	7960	393	1	7292	385
558300	3	3	8080	5.6	449	1960	3	8080	5.6	449	3	7603	398	3	8193	423
561487	2	2	9265	5.7	518	1959	2	9265	5.7	518	2	8570	395	2	9074	419
569635	1	1	8100	5.1	410	1959	1	8100	5.1	410	1	7100	374	1	8415	452



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HEKU MILK LB.	AVERAGE FAT LB.	
BROWN SWISS																	
34846	5	6	7670	4.0	306	1947	4	7153	4.0	288							
						1949	2	8520	3.9	332							
35299	24	79	8747	4.0	350	1947	18	8815	4.0	349	1	10510	379				
						1948	8	8680	4.1	349	1	12900	489				
						1949	9	9746	4.0	390	1	13060	494				
						1950	11	9643	4.2	396	2	11215	433				
						1951	10	7531	4.3	315	2	10115	401				
						1952	10	9191	4.0	368	2	10230	383				
						1953	6	9790	3.8	368	2	11095	438		2	9974	393
						1954	4	8525	3.8	328	1	8980	371		1	8829	352
						1955	1	9300	3.7	341							
						1956	1	10960	3.5	380	1	8890	380				
						1959	1	12880	4.1	531	1	9690	360			1	11478
37565	2	5	9179	4.3	395	1948	1	9810	4.7	458							
						1949	1	7660	4.0	306	1	8370	351				
						1951	1	8120	3.8	311	1	10250	377				
						1952	1	10640	3.9	410	1	8470	317				
						1953	1	7770	3.8	296	1	9590	378				
39130	21	58	8153	4.4	356	1950	1	8280	4.4	365							
						1951	13	8323	4.3	355	7	9416	379				
						1952	9	9016	4.2	382	8	9543	383				
						1953	9	8689	4.3	378	9	8908	354		9	9348	374
						1954	5	7902	4.5	355	5	8604	363		5	8637	363
						1955	6	7253	4.4	326	6	8373	345		3	7074	288
						1956	4	8805	4.7	419	3	10097	411		1	6725	259
						1957	5	9854	4.5	441	4	10473	444		4	9319	413
						1958	3	11740	4.4	516	3	11863	506		3	10322	435
1959	3	11163	4.4	497	3	11777	492		3	11663	502						
39593	46	114	9386	4.2	393	1947	22	9065	4.1	376	1	9830	472				
						1948	10	10840	4.1	442	3	12350	496				
						1949	16	10731	4.2	451	3	11703	479				
						1950	18	8899	4.1	366	2	10345	399				
						1951	14	9314	4.2	394	2	10880	444				
						1952	20	10236	4.4	444	6	11763	485				
						1953	8	11401	4.3	481	6	12638	510		6	9385	392
						1954	2	7745	4.4	338	2	11225	461		1	10170	435
						1956	1	16890	4.2	712	1	13560	587				
						1958	2	13845	4.0	560	1	14520	584		1	13331	559
						1959	1	12080	4.0	478	1	12480	518				
39613	6	27	9377	4.3	400	1947	4	10043	4.2	420							
						1948	5	9614	4.2	401							
						1949	5	9670	4.2	407							
						1950	4	9355	4.4	413							
						1951	2	6960	4.5	311							
						1952	2	9235	4.6	436							
						1953	2	9160	4.5	406							
						1954	2	9130	4.4	394							
						1955	1	9460	3.9	369							
41769	18	51	10671	3.5	367	1947	16	10876	3.5	379	1	9340	375				
						1948	7	11117	3.5	388	2	10920	402				
						1949	7	11493	3.4	387	2	11620	411				
						1950	8	10233	3.5	355	2	10950	382				
						1951	5	10022	3.6	360	1	8880	334				
						1952	6	9023	3.5	313	2	9440	328				
						1953	2	6595	3.9	258	1	7830	273		1	8328	293
44741	3	3	9080	3.7	343	1947	3	9080	3.7	343							
46379	5	8	11029	3.8	419	1953	2	11275	3.8	426	1	9600	367				
						1954	2	10155	4.0	401	2	9145	359		1	9069	334
						1955	3	11923	3.7	448	3	10167	390		2	9619	363
						1956	1	11720	4.2	497	1	10710	412		1	11707	441
48098	5	12	9820	4.3	424	1952	1	10830	4.4	471	1	11700	445				
						1953	1	13040	4.5	592							
						1954	3	8857	4.4	388	2	10885	415		1	11292	441
						1955	5	10202	4.3	441	4	10178	391		2	11096	451
						1956	1	9360	4.5	424	1	11590	431				
						1957	1	9960	4.4	443	1	11410	423		1	10955	423
48160	1	4	9205	3.6	329	1951	1	5100	3.9	198							
						1952	1	9970	3.5	348							
						1954	1	11000	3.5	388							
						1955	1	10750	3.5	380							
48544	5	16	9849	3.9	376	1952	1	11400	3.8	432	1	11200	440				
						1953	3	9950	4.1	396	2	10560	426		2	10639	409
						1954	3	11323	3.8	428	2	9925	402		1	11292	441
						1955	3	12233	3.9	478	2	11765	476		1	11096	451
						1956	1	10900	3.7	404	1	11420	433				
						1957	3	8533	3.7	317	2	9745	377		1	10955	423
						1958	2	8630	2.8	241	1	10340	411		1	9439	373
48671	1	1	13290	3.4	450	1952	1	13290	3.4	450							
48672	1	4	10115	4.4	443	1952	1	13600	4.3	586	1	12520	509				
						1954	1	10490	4.4	460	1	9090	373		1	8829	352

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORD NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.	
						BROWN SWISS											
						1955	1	10910	4.4	478	1	9210	361		1	8219	342
						1956	1	5460	4.5	246	1	9660	402				
48945	3	4	12577	3.9	491	1958	1	13080	3.8	494	1	11390	481				
						1959	3	12260	3.9	485	3	10150	433		3	12284	505
50482	1	1	12950	4.4	573	1957	1	12950	4.4	573							
51258	1	3	13440	3.7	497	1955	1	12130	3.9	470	1	11510	473				
						1956	1	13990	3.8	532							
						1959	1	14200	3.4	489	1	8990	389				
51694	1	1	11070	4.6	510	1955	1	11070	4.6	510	1	10680	441				
51890	11	25	9743	4.1	401	1953	2	11830	3.9	452	2	9340	358		1	10311	410
						1954	6	9727	4.2	407	5	9454	370		4	9603	373
						1955	5	9002	3.9	350	3	8227	303		2	10263	393
						1956	2	8950	3.6	322	1	10560	370		1	11707	441
						1957	5	10046	4.0	399	3	9370	363		3	10290	408
						1958	2	10410	4.0	415	1	9700	377		1	9145	374
						1959	3	10973	4.2	453	1	11830	475		2	11500	448
53913	8	22	9824	4.1	400	1953	3	10373	4.2	431	2	10520	415		1	9483	356
						1954	5	9164	4.2	384	4	9425	370		4	9456	376
						1955	7	8361	4.1	345	6	9597	363		4	9810	406
						1956	3	10713	4.1	442	1	12100	484		1	10606	492
						1957	2	9820	3.9	383	1	10040	395		1	10933	435
						1959	1	10800	3.9	423	1	11710	473		1	11881	459
						1960	1	11400	3.8	430	1	13970	573		1	13091	523
54954	1	2	9475	4.3	403	1959	1	9580	4.3	414	1	11570	478		1	12284	505
						1960	1	9370	4.2	371	1	9920	439		1	10660	445
55722	2	4	11519	3.6	413	1953	1	14700	3.3	489							
						1954	2	10905	3.7	401							
						1957	1	12540	3.4	421							
55865	4	17	10889	4.1	445	1947	2	9260	4.2	386							
						1948	4	12848	4.1	529	1	13000	515				
						1949	2	13370	4.1	550	1	16280	625				
						1950	1	8430	4.2	350							
						1951	3	7957	4.3	343	1	13470	548				
						1952	3	9800	4.0	390	1	11700	478				
						1953	1	10390	4.0	415							
						1956	1	12250	3.9	475							
55866	8	33	7949	4.3	338	1947	13	7462	4.4	331	3	9780	461				
						1948	6	8075	4.1	335	1	7600	306				
						1949	5	9526	4.2	399	1	7400	319				
						1950	4	8780	4.2	369	2	9640	395				
						1951	1	8460	4.1	346	1	10250	429				
						1952	2	11270	4.1	463	2	9245	392				
						1953	1	9290	3.5	329	1	8640	360		1	9636	404
						1954	1	7350	4.0	291	1	7400	309		1	9134	388
57594	36	77	8583	3.9	332	1948	7	8896	4.0	354							
						1949	8	10248	4.0	406	1	12140	493				
						1950	11	8813	3.9	340	4	10678	394				
						1951	16	8400	3.9	326	6	10372	372				
						1952	19	8648	3.7	322	8	9638	352				
						1953	8	9813	3.8	373	5	9838	383		5	9642	377
						1954	1	10500	4.2	439							
						1955	4	9203	4.0	366	1	9020	362		1	8219	342
						1956	1	8690	4.0	346							
						1957	2	3775	4.4	166							
58096	1	3	6490	3.7	245	1951	1	7570	3.7	284	1	9190	370				
						1952	1	6040	3.7	225	1	7870	328				
						1953	1	5660	3.8	225	1	8600	353		1	7641	317
58918	6	11	8457	4.2	355	1952	1	9830	3.8	377							
						1953	4	8678	4.4	379	2	11075	441		2	9887	374
						1954	3	8807	4.2	362	2	9135	363		2	8960	355
						1955	1	5490	4.0	221	1	6810	246				
						1956	2	9920	3.7	367	1	10140	394		1	11707	441
59455	13	22	11438	4.3	488	1956	1	12770	4.0	517	1	12510	467				
						1957	6	10883	4.2	457	3	9963	413		3	8669	354
						1958	7	11103	4.4	485	6	11377	457		6	11144	442
						1959	8	11503	4.3	492	8	11613	470		7	12420	501
59699	11	21	9259	4.2	386	1953	4	9225	4.5	413	3	9553	403		3	9099	373
						1954	4	9395	4.5	417	3	9243	363		3	9123	371
						1955	3	8820	4.4	392	2	8235	325		1	8622	364
						1956	1	5380	3.1	167							
						1957	3	11733	3.8	450	3	11527	440		1	10279	398
						1958	4	11925	3.9	460	3	11470	449		3	10824	416
						1959	2	9655	4.5	423	2	7940	329		2	10600	393
59936	8	20	9015	3.8	336	1952	1	11640	3.9	451	1	11560	448				
						1953	4	10603	3.7	395	3	10350	389		2	9668	358

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTMILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
						1954	4	10535	3.7	386	4	9363	372	3	9774	377
						1955	3	6290	3.7	233	3	8930	329	1	10453	396
						1956	1	10310	3.6	371						
						1957	5	9073	4.0	365	2	11785	469	2	9467	364
						1958	2	10090	4.1	412	1	9830	382	1	8458	355
						1959	1	7860	4.0	312	1	7650	307	1	9265	376
						1960	1	8170	3.6	312	1	9780	407	1	7750	317
60138	1	1	12600	4.2	533	1956	1	12600	4.2	533	1	11280	471			
61099	24	42	8903	4.1	365	1951	1	10050	5.7	571						
						1952	8	8614	4.5	393	4	9720	395			
						1953	7	7307	3.8	271	4	8603	333	4	8132	312
						1954	6	8278	3.8	319	2	8240	335	2	7527	298
						1955	5	8784	3.9	342	3	7580	299	3	7361	290
						1956	6	8557	4.0	337	4	9418	378	2	7995	322
						1957	3	11653	3.6	439	3	11337	458	3	10282	413
						1958	2	10715	3.9	419	2	11625	474	1	9494	380
						1959	2	13820	3.9	537	1	13340	550	1	14017	584
						1960	2	11645	4.0	457	2	10655	444	2	10410	436
61560	5	8	12333	4.5	546	1955	2	10425	4.8	486						
						1956	2	12560	4.3	534	1	13330	541			
						1958	2	12160	4.2	502						
						1959	2	13155	4.5	582	1	11840	474	1	11946	498
61566	1	1	11510	4.2	482	1959	1	11510	4.2	482	1	10650	444	1	12284	505
62227	19	37	8677	4.1	356	1950	1	6290	3.9	248						
						1952	6	9153	4.1	373	4	9415	397			
						1953	7	8141	4.0	326	6	9800	390	6	9205	359
						1954	8	7451	4.0	299	6	8540	340	6	9490	375
						1955	6	8647	4.0	340	4	9665	371	3	9327	377
						1956	2	8825	3.9	346	2	11390	439	2	9876	343
						1957	2	8790	4.2	393	1	11040	457	1	8742	364
						1958	3	9297	3.9	370	3	9837	385	3	10046	393
						1959	1	11830	3.6	423						
						1960	1	11720	4.6	541	1	10120	378	1	9254	364
62228	85	167	9033	4.2	381	1952	1	11800	4.3	511	1	9470	400			
						1953	8	8256	4.3	354	8	8369	345	8	8831	359
						1954	17	7662	4.2	316	13	8928	361	13	9247	375
						1955	32	8112	4.2	340	25	9128	378	19	8720	352
						1956	27	8853	4.3	378	20	10238	417	10	9347	379
						1957	19	10170	4.1	420	16	11134	452	14	9744	400
						1958	26	9550	4.3	408	26	10900	438	20	10240	412
						1959	31	10616	4.2	444	28	11673	475	25	11744	477
						1960	6	11775	4.2	494	5	11862	477	4	11889	464
62573	1	2	9740	3.7	365	1952	1	12050	3.9	466	1	11670	461			
						1954	1	7430	3.5	263	1	10140	416	1	10104	527
62834	1	1	6130	4.2	259	1955	1	6130	4.2	259						
64541	1	1	9510	3.8	359	1959	1	9510	3.8	359	1	9200	341			
64773	6	18	9251	4.3	401	1954	2	11690	4.5	518	1	10730	427			
						1955	1	6300	4.7	295						
						1956	5	8954	4.4	395	3	9663	387			
						1957	6	8378	4.4	368	4	9760	387	3	9941	408
						1958	4	11193	4.3	481	3	11657	455	3	10827	421
64837	18	30	9445	3.8	357	1952	1	10470	3.7	383						
						1953	6	9022	3.5	320	5	11016	437	5	9889	386
						1954	1	11370	3.4	387	1	9470	378	1	11957	462
						1955	2	6645	3.6	241	2	9015	345	2	8584	345
						1956	2	10200	3.6	380	2	7795	404	2	8600	345
						1957	2	9640	3.9	372	1	10060	385	1	9200	356
						1958	7	10184	4.0	406	5	10336	420	4	9366	371
						1959	6	10660	4.1	432	5	9970	401	2	8502	359
						1960	3	10060	3.9	387	3	8593	338	2	8797	348
65397	1	1	6240	4.8	301	1952	1	6240	4.8	301	1	8220	337			
66101	24	49	9167	4.3	391	1951	1	6480	4.9	315						
						1952	4	8230	4.7	389	4	9270	384			
						1953	9	8394	4.5	376	9	8780	350	9	8765	352
						1954	11	8295	4.3	353	9	8532	337	9	9007	365
						1955	6	8703	4.2	361	4	8933	354	4	8764	345
						1956	4	10260	4.1	420	4	10348	419	3	9977	374
						1957	7	10081	4.4	444	5	11850	497	5	10582	440
						1958	2	12090	4.2	498	2	11605	490	2	10322	435
						1959	3	11327	4.3	490	3	12073	490	3	12222	502
						1960	2	11995	3.7	445	1	12020	506	1	11805	493
66318	7	16	9524	4.2	393	1952	1	11990	4.3	514						
						1953	1	9070	4.0	364	1	10440	457			
						1954	3	9230	4.0	365	3	10977	435	1	12328	492
						1955	4	10418	4.3	438	3	9343	381	2	9156	372
						1956	2	12675	4.2	529	1	13720	522			
						1957	2	11740	3.9	462	1	12890	523	1	14334	580
						1958	2	12560	4.0	497	1	13220	547	1	15315	597
						1959	1	8370	4.3	356						
66934	24	58	10347	4.0	416	1949	1	11690	4.1	483						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS				305-DAY CONTEMP.			YEARLY HERD AVERAGE		
							NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
BROWN SWISS																
						1950	1	13500	4.0	536						
						1951	1	14130	4.0	570						
						1952	3	11953	4.0	483						
						1953	5	10240	4.2	437	2	10765	420	2	10306	
						1954	9	9972	4.0	393	5	9376	377	4	10379	
						1955	6	9621	4.1	389	7	10219	413	5	10542	
						1956	8	9704	4.0	393	8	9695	385	3	8887	
						1957	9	10761	3.8	417	6	10648	415	8	10306	
						1958	8	10873	4.0	435	7	12003	497	6	10341	
						1959	7	10456	4.1	430	6	11498	478	6	11561	
67525	2	4	10814	4.1	443	1954	1	10280	4.2	428	1	9450	362	1	10192	
						1955	1	10740	3.5	381	1	8940	342	1	10072	
						1957	1	10470	3.6	378	1	10870	417	1	10279	
						1958	1	11130	4.4	489	1	11740	442	1	10551	
68351	1	1	15530	4.2	655	1960	1	15530	4.2	655	1	10470	424	1	10715	
68357	1	1	12000	4.2	503	1959	1	12000	4.2	503	1	11260	467	1	12284	
68741	2	3	7115	4.1	275	1957	1	9900	3.6	353	1	12170	463			
						1958	1	10320	3.7	382	1	10710	421	1	11936	
						1960	1	4120	4.4	181	1	8560	365	1	9363	
69653	3	7	11774	4.2	485	1957	2	11195	4.4	488	1	8130	355	1	7946	
						1958	2	9480	4.2	406	2	8855	364			
						1959	1	11350	4.2	480	1	9300	387	1	9461	
						1960	2	11900	4.2	484	2	10470	423	2	9636	
69939	1	3	9693	4.1	400	1953	1	9240	4.1	379	1	10380	450			
						1954	1	10160	4.1	420	1	10740	427			
						1956	1	9680	4.1	400	1	9710	378			
69978	2	2	10560	4.0	420	1957	1	10450	4.1	425						
						1958	1	10670	3.9	415	1	9190	366	1	9494	
70012	6	7	10518	3.9	402	1957	2	10020	3.8	379	2	11505	429	2	10955	
						1958	4	11893	3.9	459	3	10077	401	3	11104	
						1959	1	2910	4.7	136	1	7770	330	1	9363	
70409	9	17	11853	4.1	480	1955	1	12010	4.1	495	1	11170	422	1	10257	
						1956	4	10566	4.2	444	1	11030	437	1	10224	
						1957	8	11611	4.0	463	3	11110	413	3	10955	
						1958	2	10980	4.3	473						
						1959	2	13360	4.2	562						
70430	15	37	11921	4.0	477	1950	1	9310	3.8	357						
						1951	3	10437	4.0	418						
						1952	8	11141	4.1	458	3	10810	433	4	10693	
						1953	5	12138	3.9	473	4	11705	456	5	10004	
						1954	8	12171	3.9	470	5	10616	436	5	10377	
						1955	2	11820	4.2	492	1	9900	428	1	10377	
						1956	2	13165	4.0	517						
						1957	2	11470	4.2	473	1	11640	477	2	10311	
						1958	3	15957	4.3	696	2	10215	428	2	10634	
						1959	2	14020	3.8	523	2	12265	512	2	12650	
						1960	1	14050	3.7	523	1	11150	467	1	11565	
70757	2	5	8894	4.5	394	1954	1	10620	4.6	494	1	0370	320	1	8960	
						1955	1	8150	4.8	341	1	9410	356			
						1958	1	9320	4.1	381						
						1959	1	8540	4.2	355	1	8840	350	1	14192	
						1960	1	7050	4.2	299	1	10900	463	1	9232	
71866	17	26	10297	4.1	423	1954	6	9783	4.1	398	5	10700	445	5	10076	
						1955	3	8463	4.2	358	2	9775	374	2	10274	
						1956	3	10210	4.2	436	2	11850	450			
						1957	2	12485	4.2	510	2	12135	501	2	10737	
						1958	4	11048	4.2	466	3	11437	460	3	11779	
						1959	5	11074	4.4	484	5	10892	447	5	11644	
						1960	3	9040	4.2	376	3	10323	416	2	10609	
71920	23	59	8327	4.0	334	1953	4	6320	4.2	266	4	0103	329	4	8756	
						1954	15	7779	4.0	313	14	8127	329	12	8136	
						1955	15	8053	4.0	323	13	8128	331	9	7957	
						1956	7	9607	4.0	379	4	8670	376	1	9156	
						1957	9	10350	4.1	426	8	10245	426	8	9574	
						1958	3	9330	4.0	372	3	10760	426	3	9784	
						1959	4	9700	4.0	390	4	10278	424	4	10761	
						1960	2	9495	3.7	352	2	9425	365	2	8916	
72394	8	12	10932	4.0	442	1954	1	10860	4.1	448	1	9420	397	1	11957	
						1956	1	9770	4.2	414	1	7340	265			
						1957	3	12503	4.0	503	2	9540	353	2	10165	
						1958	3	9890	4.1	412	2	9215	359	1	11554	
						1959	3	11230	4.1	450	2	10910	430	2	11113	
						1960	1	12780	4.3	545	1	9630	358	1	9232	
72896	123	287	10760	4.0	433	1950	10	12179	3.9	473	2	10170	367			
						1951	10	9523	4.1	399	6	9645	377			
						1952	11	9610	4.0	391	11	9229	365			
						1953	16	9689	4.0	367	16	8717	349	16	9252	
						1954	28	9200	4.0	370	25	8641	349	23	9156	
						1955	29	9532	4.1	393	24	9266	379	16	8922	
						1956	25	11285	4.0	451	17	10731	433	9	9286	

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY ORELD, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	TEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
72898	25	39	10147	4.1	415	1957	46	10790	4.0	436	35	10790	441	34	9813	411
						1958	46	10876	4.1	439	36	10653	435	31	9978	407
						1959	58	11572	4.1	471	49	11534	473	43	11099	458
						1960	8	12416	4.0	499	3	11533	480	3	11318	461
						1954	1	8190	3.7	305	1	8130	344	1	9156	378
						1955	4	7740	4.1	320	2	9170	368	2	8529	340
						1956	2	8475	4.1	343	1	9500	396			
73128	1	1	5330	4.6	152	1957	11	9899	4.1	407	8	10573	430	6	10124	431
						1958	10	10921	4.2	460	10	11482	477	7	10120	419
						1959	9	12103	4.1	500	8	11673	481	4	9377	401
						1960	2	8290	3.8	309	2	7240	296	2	8350	331
						1951	1	3330	4.6	152						
						1953	1	9340	4.6	451	1	7720	259	1	8426	359
						1954	13	8774	4.3	370	12	9077	360	11	9163	374
73318	60	132	10284	4.2	426	1955	16	9673	4.1	395	15	9505	382	14	8631	348
						1956	30	10157	4.2	420	21	10072	419	16	9627	391
						1957	23	9953	4.2	412	17	10024	416	17	9697	402
						1958	17	11571	4.3	493	15	11603	482	12	10820	451
						1959	23	11177	4.2	471	19	11551	491	18	12009	501
						1960	9	11528	4.2	487	9	10629	442	8	11222	467
						74191	3	7	9047	3.9	355	1954	1	6800	3.7	253
1955	2	9305	3.6	348	2							7145	273	1	8142	328
1956	2	10840	4.0	427	1							8560	325	1	8513	357
1958	1	9010	4.3	386	1							11270	447	1	10268	395
1959	1	6580	3.9	250	1							8960	357	1	11837	462
74637	1	2	8485	4.4	367	1953	1	8820	4.4	385						
						1954	1	8150	4.3	348						
75281	13	28	8668	4.2	362	1952	5	7884	4.3	343	4	9225	369			
						1953	4	7758	4.3	345	3	9990	407	3	9443	381
						1954	3	8664	4.3	384	5	9412	387	4	9393	390
						1955	3	10067	4.3	435	1	11660	466	1	11554	473
						1956	4	9573	4.4	411	2	10165	405			
						1957	2	8505	4.1	347	1	9690	387	1	9657	389
						1958	1	10490	4.3	452	1	11160	464	1	11685	494
75282	4	4	12083	4.2	510	1959	3	9593	4.1	391	2	10495	427	2	10966	456
						1960	1	10350	3.8	396	1	9470	351			
						1952	1	13770	4.3	569	1	11900	470			
						1956	1	10170	4.3	441	1	11760	467			
						1959	2	12195	4.1	505	2	10890	453	2	12284	505
75432	1	2	11435	3.8	428	1958	1	11780	3.9	440	1	12290	476			
						1959	1	11590	3.6	415	1	13750	553	1	11681	459
75913	22	31	11117	4.0	445	1958	8	11913	3.9	467	0	12623	510	6	12059	481
						1959	21	11250	4.0	454	20	11350	462	20	12113	478
						1960	2	8135	4.1	332	2	9695	397	2	9914	396
76059	3	5	9548	4.1	395	1956	1	12100	4.3	524	1	14160	567			
						1957	1	11250	4.1	462						
						1958	1	8100	4.3	351	1	9030	351	1	9494	363
						1959	1	10990	4.1	448	1	9360	380	1	10824	441
						1960	1	6750	3.5	234				1	10715	456
76903	7	14	7481	4.3	315	1951	3	7413	4.1	303	3	8130	311			
						1952	4	9713	4.1	388	4	7645	370			
						1953	5	8438	4.4	362	5	9312	379	5	8932	356
						1954	1	7260	4.0	289	1	9020	347	1	10410	416
						1955	1	6620	4.1	265	1	8550	349	1	10104	413
77195	2	5	10624	3.9	401	1956	1	10800	3.3	360	1	11620	448			
						1957	1	13650	3.4	469	1	11220	420	1	10955	423
						1958	1	14720	3.4	501						
						1959	2	8155	4.0	325	1	6910	276	1	9363	323
77775	5	6	9840	4.1	399	1959	4	10085	4.2	420	3	8523	346	2	9363	323
						1960	2	9650	3.7	366	1	9230	344			
78152	1	3	10360	4.2	438	1957	1	10716	4.3	459						
						1958	1	10070	4.3	430						
						1959	1	10500	4.1	424						
78928	18	26	10434	4.1	423	1955	2	9800	4.1	398				1	10333	405
						1956	2	7080	4.0	282	2	10670	417	1	10911	419
						1957	2	11320	4.1	457	2	10950	443	2	9657	359
						1958	9	10748	3.9	421	7	11169	440	5	11519	463
						1959	8	11075	4.1	460	6	11425	459	8	12511	499
						1960	3	10263	4.1	425	3	10853	417	2	10602	456
						80699	2	3	9375	4.0	376	1956	1	10560	4.1	436
1957	2	8190	3.6	315	1							9240	360	1	9984	404
81652	14	21	10790	4.0	427	1956	1	13750	3.6	490	1	11020	419			
						1957	6	10751	4.1	434	6	10545	402	5	10620	418
						1958	8	10849	3.9	421	5	11150	432	6	10776	399
						1959	3	7590	4.1	311	2	7265	308	2	9363	323



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	AVERAGE FAT LB.
						DROWN SWISS										
						1960	1	10120	3.9	393						
82405	52	103	10164	4.1	414	1952	1	7350	4.1	303						
						1953	3	12113	3.9	477	3	10627	418	3	10214	390
						1954	17	9782	4.2	408	15	10977	442	13	11121	446
						1955	10	9261	4.0	366	7	11640	441	5	9738	385
						1956	12	10044	4.0	406	7	10589	425	4	10573	422
						1957	19	10700	4.0	426	12	10962	432	13	10071	396
						1958	24	11115	4.2	464	17	11196	453	16	10730	428
						1959	14	10398	4.1	425	12	10597	410	11	11343	457
						1960	3	10687	4.0	427	2	11205	419	3	11725	467
82516	2	3	10923	4.3	467	1954	2	11686	4.1	463	2	12780	530	2	12382	531
						1955	1	10460	4.7	493	1	11480	482	1	12066	501
83625	11	14	10840	4.0	438	1957	2	8335	4.0	331	1	12270	466			
						1958	8	11248	4.1	455	6	11047	427	6	11967	455
						1959	3	11207	4.1	464	2	11445	463	1	10824	441
						1960	1	9620	4.1	398	1	10250	438	1	9232	372
84052	1	2	8820	4.1	362	1958	2	8820	4.1	362						
84812	2	2	16695	3.7	613	1959	1	19870	3.6	767	1	10500	437			
						1960	1	13520	3.8	516	1	10500	437	1	12938	510
84963	3	4	10732	4.5	482	1954	1	10510	4.3	449	1	10600	439			
						1955	2	10600	4.5	456	2	10420	427	1	10093	402
						1956	1	11220	4.7	531						
85003	7	15	11133	4.2	458	1952	2	14690	3.7	345	2	11325	455			
						1953	2	12926	4.0	517	2	11130	467	1	11434	447
						1954	3	11277	4.2	468	2	11725	480	1	10551	421
						1955	3	8683	4.4	374	2	9225	379	2	9407	371
						1956	2	12570	4.2	523	2	12135	461			
						1957	2	10280	4.4	447	2	11025	431	2	10851	430
						1959	1	10980	4.3	468	1	8790	370	1	8829	353
						1952	6	10122	4.1	411	5	10628	397			
85139	12	21	9878	4.1	400	1953	6	10653	4.1	435	6	11378	442	6	10911	420
						1954	4	10010	4.5	422	4	11150	461	4	10104	397
						1955	3	9577	4.0	365	2	8930	370	1	10377	435
						1958	1	6430	4.2	270	1	9300	377			
						1959	1	11400	4.0	452	1	11690	461	1	11521	456
85628	2	4	9150	4.4	405	1954	2	10220	4.4	443	1	10080	426	1	9963	391
						1955	1	9700	3.7	359	1	10110	395	1	10050	422
						1956	1	5080	4.1	210	1	7930	310			
86139	1	2	7635	4.3	324	1959	1	7790	4.3	353	1	10360	414	1	10115	416
						1960	1	7480	4.2	315	1	9670	395	1	9200	384
86498	1	2	7025	4.5	317	1954	2	7025	4.5	317	2	10360	410	2	11957	462
87630	2	3	10180	4.3	434	1955	1	10906	4.5	487	1	10950	473			
						1956	1	8440	4.1	346	1	7690	301			
						1958	1	10480	4.0	414	1	9620	369	1	9145	374
87681	6	8	8912	4.2	375	1956	4	9205	4.2	363	4	10498	414	4	10688	391
						1959	3	8327	4.2	353	2	6990	300	2	9363	323
						1960	1	9440	4.5	422						
87721	34	55	11775	3.9	462	1955	2	11225	4.0	450	2	10435	422	2	8470	341
						1956	4	10435	3.6	376	2	11040	452			
						1957	8	11296	3.9	440	6	9978	406	6	9881	396
						1958	20	11692	4.0	472	18	11869	468	15	10751	434
						1959	18	11768	4.0	471	17	11908	469	14	11845	492
						1960	3	10637	3.8	399	2	10165	417	2	9783	396
						1955	1	8550	3.9	335						
87964	4	5	9734	4.1	399	1959	3	10577	4.1	426	3	10967	458	3	12284	505
						1960	1	9130	4.6	416	1	9960	434	1	10660	445
89612	1	2	9425	4.2	393	1953	1	9920	4.5	424	1	10290	444			
						1955	1	8930	4.1	362	1	10430	391	1	10093	402
90019	3	5	7457	4.3	319	1952	2	7450	4.4	326						
						1953	2	7385	4.4	323						
						1954	1	9040	4.0	363						
90092	6	6	9587	3.7	349	1953	2	9215	3.6	324						
						1954	1	7320	3.7	268	1	9910	389	1	9865	388
						1955	2	9350	4.0	364	1	10710	428	1	10431	440
						1956	1	13110	3.4	452	1	13590	607	1	10987	474
90275	11	19	8688	3.9	339	1953	3	9117	4.0	361	3	8770	349			
						1954	3	9387	3.9	370	3	8767	347			
						1955	1	8410	3.5	291	1	8630	351	1	8785	329
						1956	2	9280	4.3	395	1	10860	402	1	8927	346
						1950	1	6770	4.3	289	1	7960	357	1	7471	304
						1959	7	8441	3.8	323	7	9371	341			
						1960	2	6970	4.1	283	2	6925	281	2	8442	336
						91234	11	21	10272	3.9	392	1953	2	11375	4.1	459
1954	3	7623	4.1	317	2							9780	374	2	10704	433
1955	4	10948	3.7	404	2							11025	444	2	10432	407

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BULL, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. LB.	AV. LB.	YEARLY RECORDS NO.	YEARLY MILK LB.	YEARLY FAT LB.
						GRUMPY SWISS										
91856	7	13	9055	4.2	373	1956	3	10797	4.0	425	1	12070	478			
						1957	1	12640	3.9	475	1	10200	419	1	10889	435
						1958	5	12518	3.8	472	2	12500	499	2	11554	457
						1959	3	11483	4.0	457	1	13500	526	1	11543	473
						1954	2	10735	3.7	393						
92099	22	33	10823	3.8	415	1955	3	9637	4.1	402	2	11140	448	2	10241	397
						1956	4	10690	4.0	421	2	11235	429			
						1957	1	4956	4.8	259	1	11140	448	1	10889	435
						1958	1	4020	5.2	208	1	6810	297	1	5515	250
						1960	2	6240	4.8	316	2	7455	334	1	4949	220
94606	7	19	11280	4.0	450	1956	1	8640	3.7	316	1	8400	322	1	8567	350
						1957	6	8328	3.9	320	4	11243	449	4	9295	371
						1958	7	11634	4.0	467	5	11418	460	5	10769	417
						1959	15	11355	3.8	427	13	10234	442	8	12172	489
						1960	4	8533	3.5	305	5	9703	372	2	9232	354
94773	11	25	9645	4.0	378	1955	4	9610	4.0	366	3	11400	446	3	10682	419
						1956	3	12630	3.8	450	2	12500	491			
						1957	3	11963	4.2	511	1	11400	451			
						1958	6	12050	4.1	497	1	11233	435	1	9657	369
						1959	2	11900	4.0	471	1	12000	499	1	11946	496
96330	2	4	8518	3.8	320	1960	1	11070	3.9	436	1	11300	456	1	10606	413
						1954	3	6247	4.1	253	3	10277	425	3	10286	413
						1955	2	8990	3.9	349	2	7540	371	2	10104	398
						1956	3	11313	3.8	429	2	9615	374	1	10911	419
						1957	4	8655	4.0	347	2	10110	401	3	8716	353
97438	9	18	10000	4.2	419	1958	6	10355	3.9	394	5	9430	375	3	8444	346
						1959	7	9611	3.9	378	5	10238	402	5	10695	422
						1953	1	7420	4.1	307				1	10311	410
						1954	1	7526	3.9	290				1	10039	423
						1959	1	9930	3.5	349	1	10530	442	1	8829	353
100513	7	11	10021	3.9	395	1960	1	9200	3.6	335	1	8900	363	1	10039	423
						1955	2	10040	4.3	431	2	7680	318	1	6905	373
						1956	2	10245	4.4	446	2	10040	432			
						1957	4	9650	4.2	400	2	11165	450	2	9200	380
						1958	6	10358	4.4	448	4	10663	432	4	9374	385
101470	10	10	12686	3.7	477	1959	3	9760	4.2	394	3	9193	367	3	9349	383
						1960	1	7940	3.6	288						
						1956	2	9435	4.1	369	1	7520	300			
						1957	3	10663	3.9	420	1	9970	383	1	9200	356
						1958	5	10306	3.9	405	4	10203	400	2	9292	369
101807	35	46	11133	4.0	445	1959	1	8760	3.8	331	1	10230	417	1	10846	411
						1959	3	15050	3.9	578	3	12613	490	3	12498	512
						1960	7	11681	3.7	434	6	11568	458	6	10711	429
						1957	5	12854	4.0	510	3	12620	508	3	10526	424
						1958	14	10876	3.9	423	11	11392	455	10	10752	472
102187	2	3	9265	4.4	400	1959	23	10959	4.1	445	21	11210	450	12	12341	503
						1960	4	11298	3.9	439	4	12805	526	4	11745	481
						1958	2	9600	4.4	424						
						1959	1	9330	4.1	354						
						1957	2	10315	4.7	465	2	14370	577	2	10301	416
103297	24	28	10301	4.3	441	1958	5	11658	4.3	492	5	10962	440	4	10974	438
						1959	14	9816	4.3	421	12	10762	426	7	11436	461
						1960	7	10769	4.3	456	4	11558	445	5	11663	471
						1957	1	12140	4.0	487	1	12270	487	1	12938	510
						1960	1	13270	3.6	472	1	12000	505	1	10889	455
103920	1	1	12140	4.0	487	1958	1	11740	3.7	434	1	12110	486	1	11554	457
						1957	2	13270	3.6	472						
						1958	1	11740	3.7	434						
						1959	4	7995	3.9	307	3	9543	379	3	8949	354
						1960	1	10890	4.1	445	1	16200	615	1	11456	479
104401	1	3	12760	3.6	459	1957	1	12930	3.7	479						
						1958	1	12930	3.7	479						
						1959	1	12930	3.7	479						
						1960	1	12930	3.7	479						
						1957	2	10315	4.7	465	2	14370	577	2	10301	416
104852	5	5	8572	4.0	335	1958	5	11658	4.3	492	5	10962	440	4	10974	438
						1959	14	9816	4.3	421	12	10762	426	7	11436	461
						1960	7	10769	4.3	456	4	11558	445	5	11663	471
						1957	1	12140	4.0	487	1	12270	487	1	12938	510
						1960	1	13270	3.6	472	1	12000	505	1	10889	455
106482	1	1	12140	4.0	487	1958	1	11740	3.7	434	1	12110	486	1	11554	457
						1957	2	13270	3.6	472						
						1958	1	11740	3.7	434						
						1959	4	7995	3.9	307	3	9543	379	3	8949	354
						1960	1	10890	4.1	445	1	16200	615	1	11456	479
106794	1	1	9750	4.5	436	1957	1	12930	3.7	479						
						1958	1	12930	3.7	479						
						1959	1	12930	3.7	479						
						1960	1	12930	3.7	479						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	DAUGHTER AVERAGE MILK LB.	FAT LB.	
							BROWN	SWISS									
						1960	4	11323	4.2	470	3	11207	463	2	11761	484	
109199	14	16	10739	4.1	436	1958	2	10030	4.0	405	2	10460	418	2	10552	416	
						1959	10	11232	4.0	450	10	10999	434	8	10884	430	
						1960	4	9140	4.3	366	3	8623	347	3	9374	369	
109586	13	14	11601	4.0	463	1958	3	14457	3.9	569	3	13803	557	3	12750	525	
						1959	10	10362	3.9	410	8	11011	446	4	13186	545	
						1960	1	12260	4.3	523	1	9230	361	1	9538	379	
109596	2	4	12365	4.4	539	1956	1	11620	4.6	532	1	9220	373				
						1957	1	12620	4.4	555	1	11510	462	1	10093	419	
						1958	1	13560	4.4	596	1	12010	507	1	10279	424	
						1959	1	12170	4.2	516							
109762	1	2	11970	4.0	477	1959	1	10250	4.1	422							
						1960	1	13690	3.9	532							
109851	1	1	11440	4.6	527	1960	1	11440	4.6	527	1	12600	502	1	11271	460	
113925	4	6	11245	4.0	442	1958	2	9080	4.0	356	2	7620	318				
						1959	1	7130	4.2	299	1	8510	327				
						1960	3	12583	3.9	491	3	10166	409	3	9887	400	
116055	1	1	8220	4.2	345	1959	1	8220	4.2	345	1	11170	449				
116177	10	15	12197	4.1	500	1958	4	11673	4.1	463	4	12368	467	2	12339	483	
						1959	10	12332	4.1	506	9	11311	453	9	11833	468	
						1960	1	12180	4.2	507	1	9170	357	1	9777	386	
116729	39	49	13017	4.0	524	1956	1	13210	4.1	546	1	11660	472				
						1957	4	12415	3.8	475	4	11440	464	4	10110	413	
						1958	10	13130	4.2	546	8	11509	473	5	9869	404	
						1959	31	12968	4.6	523	28	11653	487	25	11520	473	
						1960	3	12837	4.6	515	3	11623	461	2	10704	443	
117125	1	1	9970	3.9	388	1958	1	9970	3.9	388							
120560	25	25	11725	4.2	485	1958	3	13530	3.9	521	2	13170	557	2	10813	460	
						1959	17	11421	4.2	477	17	11379	453	15	11218	459	
						1960	5	11670	4.3	491	4	12553	531	1	9254	364	
121214	10	12	9923	4.2	419	1959	8	10255	4.3	437	8	10801	438	7	11333	438	
						1960	4	8410	4.2	355	3	10670	403	2	10295	413	
125021	2	2	10955	3.9	422	1959	2	10955	3.9	422	2	10660	433	1	9984	360	

TABLE 15.--DAUGHTER-AVERAGE OF SIRELS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.					
M. SHORTHORN																					
304	1	6	8938	4.0	360	1951	1	9770	4.0	390											
						1952	1	10200	4.1	419											
						1953	1	8410	4.1	345											
						1954	1	7590	4.1	310											
						1955	1	8780	4.0	355											
						1957	1	8880	3.8	339											
4194	2	4	12810	3.6	459	1958	2	13345	3.6	477	1	9450	364								
						1959	2	12275	3.6	440	1	9420	383	1	8426	327					
6491	1	1	8060	4.0	323	1955	1	8060	4.0	323											
18910	2	4	9699	4.0	389	1952	1	9160	4.0	363	1	8270	307								
						1953	1	9920	4.0	400	1	8870	341	1	7979	292					
						1954	1	10520	4.1	436	1	8660	339	1	9047	347					
						1955	1	9530	4.0	378	1	13010	496	1	7739	274					
27712	2	2	5880	3.9	230	1957	1	4760	3.7	176	1	8130	281	1	8088	294					
						1959	1	7000	4.1	284	1	9540	377	1	10137	397					
41637	1	2	8515	4.1	345	1952	1	8880	4.1	362	1	8270	330								
						1953	1	8150	4.0	328	1	7710	319	1	7467	305					
41979	2	2	8680	4.4	383	1959	2	8680	4.4	383											
52365	1	2	8695	4.1	352	1957	1	8340	4.3	361	1	10470	396	1	7695	292					
						1958	1	9050	3.8	343	1	8780	333	1	8796	331					
62378	1	1	8220	3.6	299	1957	1	8220	3.6	299	1	8160	307								
64218	1	3	8840	4.3	382	1957	1	9330	4.2	389	1	10850	415	1	10628	413					
						1958	1	7390	4.2	310	1	10050	385	1	10333	398					
						1959	1	9800	4.6	446	1	9880	395								
70159	1	1	9400	4.3	406	1959	1	9400	4.3	406											
71059	5	7	9000	3.8	338	1955	1	7250	3.8	278											
						1956	1	9870	3.8	375											
						1957	3	9837	3.7	364	1	10050	371	1	7488	291					
						1959	2	9390	3.7	342	1	8850	354								
73980	1	1	9090	4.0	366	1958	1	9090	4.0	366											
84864	1	1	10720	3.8	403	1958	1	10720	3.8	403	1	8920	343	1	8284	310					
90821	2	3	7513	3.9	286	1955	1	5410	3.9	212	1	7850	310	1	7783	301					
						1957	1	9140	3.7	334	1	10790	389	1	7468	291					
						1958	1	10090	3.8	384	1	8980	345	1	7706	300					
91056	1	1	8520	4.3	365	1954	1	8520	4.3	365	1	8870	366	1	8033	328					
101321	1	1	9870	4.2	410	1959	1	9870	4.2	410	1	9850	365	1	10137	397					
113493	4	7	8366	4.4	370	1955	1	7780	4.1	321	1	7640	305	1	7783	301					
						1957	1	9210	3.9	360	1	10390	396	1	7695	292					
						1958	3	9247	4.4	411	1	8780	332	1	8796	331					
						1959	2	6265	4.5	277	1	8200	327								
119645	2	3	7348	3.8	277	1954	1	7320	3.6	265	1	7990	311	1	7205	282					
						1955	1	4650	3.8	176	1	7990	321	1	7783	301					
						1957	1	8710	3.8	332	1	8980	347	1	7488	291					
127671	2	4	9428	3.8	359	1958	1	8710	3.6	312	1	10330	366	1	8524	307					
						1959	3	9667	3.9	374	1	8530	297	1	9200	332					
131677	1	2	11070	3.7	401	1958	1	10730	3.8	404	1	9260	355								
						1959	1	11410	3.5	397	1	9630	377	1	8426	327					
134259	2	3	9348	3.9	365	1958	1	8770	3.8	334	1	8380	324								
						1959	2	9565	3.9	373	2	9270	355	1	8426	327					
155214	2	2	11440	3.9	442	1958	1	10480	3.6	373	1	10680	402	1	8524	307					
						1959	1	12400	4.1	510	1	7430	296								
169242	1	1	9540	4.0	377	1959	1	9540	4.0	377	1	8240	323	1	10137	397					
227482	1	1	9420	3.7	348	1959	1	9420	3.7	348	1	9860	369	1	10137	397					
1942850	4	15	6387	3.7	237	1947	2	9045	3.9	352											
						1948	2	9315	3.7	338											
						1949	3	7457	3.6	272	2	6390	258								
						1950	3	6203	3.8	235	1	7430	310								
						1951	1	5960	3.5	208	1	5130	206								
						1953	3	5647	3.6	204	3	7190	261	3	6943	259					
						1956	1	4690	3.2	150	1	9600	364	1	6169	229					

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
AYRSHIRE																
57338	1	1	10530	3.6	375	1960	1	10530	3.6	375	1	10470	377			
62233	1	1	8350	3.9	326	1951	1	8350	3.9	326						
62636	1	1	6110	4.2	257	1960	1	6110	4.2	257	1	8710	361			
63144	1	4	7723	4.0	307	1951 1952 1953 1954	1 1 1 1	7170 7880 7150 8690	4.1 4.2 4.2 3.5	292 327 302 306	1 1 1 1	10190 10460 9330 9540	396 401 367 384	1	9341	371
64885	1	1	7050	4.2	299	1951	1	7050	4.2	299						
78927	1	3	7110	4.4	310	1954 1955	1 2	7520 6905	4.5 4.3	335 296	1 2	8300 8175	337 326	1 2	8655 8916	366 379
83165	1	1	7680	3.6	275	1958	1	7680	3.6	275	1	9590	400	1	9614	407
83630	3	6	10273	4.2	434	1957 1958 1959	1 3 2	8000 10843 10555	4.1 4.1 4.4	330 449 462	1 2 1	11610 11050 11960	444 429 499	3 2	10733 12066	418 495
84747	15	18	9125	4.4	397	1958 1959 1960	4 11 3	8563 9462 9273	4.5 4.4 4.3	375 414 402	4 10 3	9045 10638 10713	364 422 440	3 11 3	9239 9617 9625	371 415 393
86390	2	2	11510	4.6	520	1959	2	11510	4.6	520	2	10325	396	2	9652	393
86601	3	3	9140	4.0	361	1956 1957	2 1	9175 9070	3.8 4.3	346 392	2 1	10170 9030	417 362	2 1	10311 11129	412 448
86779	10	16	7033	4.2	292	1954 1955 1956 1957 1958 1959 1960	1 4 5 3 3 1 1	6950 6410 7218 7487 7130 5010 11470	4.8 4.6 4.1 4.1 4.5 3.9 3.9	334 293 286 309 319 194 449	1 4 5 3 1 1	6820 8793 8456 8550 9630 8710	274 367 339 369 393 363	1 4 5 3 1 1	6693 7339 7974 8419 9418 8349	271 305 331 348 319 349
87357	1	1	11180	4.2	468	1956	1	11180	4.2	468						
88074	1	2	11660	4.3	498	1958	2	11660	4.3	498	1	11210	457	2	6017	441
90323	1	1	7220	4.3	307	1956	1	7220	4.3	307	1	10630	430	1	9385	396
91718	1	1	8570	4.5	384	1959	1	8570	4.5	384	1	10960	433			
92173	2	3	6778	4.3	290	1956 1957	2 1	6895 6170	4.4 4.5	298 278	2 1	8070 6690	310 272	2 1	8022 8121	327 320
92422	6	8	10143	3.9	399	1958 1959 1960	1 5 2	5120 11400 8990	3.3 4.1 4.3	170 457 385	1 4 2	11500 10215 10480	433 403 397	1 5 2	7467 8297 9685	300 405 377
95368	4	6	8231	4.1	333	1954 1955 1956 1958	1 1 3 1	9640 6840 7590 9710	4.5 4.5 3.9 3.9	439 311 295 374	1 1 3 1	8120 8880 7873 11560	333 372 311 420	1 1 3 1	8807 8121 8022 9178	340 334 327 327
96526	3	7	7265	4.0	287	1955 1956 1957 1958	1 2 2 2	8240 7440 6840 6915	3.9 4.1 4.1 3.9	317 299 278 267	1 2 2 2	7560 8155 8310 8080	298 320 331 303	1 2 2 2	7968 8022 8121 8077	314 327 320 305
97269	1	1	9170	4.3	398	1960	1	9170	4.3	398	1	8100	333			
99088	5	11	9119	3.8	352	1957 1958 1959 1960	1 6 3 1	12110 9373 7940 11580	4.0 3.9 3.6 3.8	488 368 290 443	1 5 3 1	10320 9876 7680 12090	416 383 278 510	1 1 3 1	11423 10976 8916	469 434 354
102523	11	14	9508	4.0	377	1958 1959	6 8	9143 10614	4.0 4.0	360 430	5 8	10190 10129	408 408	6 7	8709 10274	414 402
102855	2	3	6498	4.0	252	1959	3	7380	3.9	284	3	9000	374	2	9462	356
104173	4	6	12731	4.0	500	1959 1960	3 3	11110 12953	4.2 4.0	467 509	2 3	10900 10773	448 423	3 3	7834 10337	456 416
104768	1	2	9170	4.2	389	1959	2	9170	4.2	389	1	9810	423	2	5445	423
108670	5	8	8491	4.2	360	1956 1957 1958 1959 1960	1 1 2 2 2	8710 6200 9380 8900 9680	4.4 4.0 4.3 4.6 4.2	381 247 406 410 407	1 1 2 1 1	10330 8220 9015 9530 13570	419 329 371 421 561	1 1 2 2 2	9843 8121 8813 10646	400 370 362 433



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTAM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.						
GUERNSEY																						
201154	1	2	5325	5.2	279	1947	2	5325	5.2	279												
208105	16	32	6697	5.0	331	1947	15	6402	5.1	324												
						1948	3	6717	5.2	349												
						1949	6	7083	5.1	399	1	7440	362									
						1950	3	8580	4.7	404	1	5210	267									
						1951	1	7900	5.2	414	1	7950	400									
						1952	2	4845	4.6	223	1	8070	411									
						1953	1	5656	4.7	263	1	7870	399									
						1956	1	7350	4.2	311	1	13420	475	1	7232	373						
212158	5	11	7785	5.6	427	1947	8	7434	5.6	411												
						1948	1	9220	5.2	411												
						1949	1	0620	5.5	474												
						1951	1	9140	5.1	466												
213384	6	11	5994	5.2	317	1947	5	5138	4.8	252	1	7150	341									
						1948	2	6460	6.2	396	1	7910	400									
						1949	2	8970	5.9	513	1	9160	471									
						1950	1	5960	5.8	346	1	8990	472									
						1953	1	5730	5.2	300	1	7150	348	1	8371	407						
215153	3	7	7573	5.0	377	1948	2	8255	4.9	394												
						1949	2	7895	5.0	376												
						1950	1	5880	3.8	226												
						1953	1	6640	5.5	365	1	7750	380									
						1955	1	9070	5.3	485	1	11110	547	1	7870	374						
215580	3	3	8337	4.5	370	1947	3	8337	4.5	376												
223617	15	48	6856	5.0	342	1947	4	5420	5.1	283												
						1948	2	8515	5.5	465	1	10370	503									
						1949	3	7733	4.9	378	2	7475	350									
						1950	7	7261	5.3	304	6	7745	377									
						1951	9	6618	4.9	322	5	7700	355									
						1952	8	7226	4.9	355	7	7714	362									
						1953	9	6416	5.1	330	8	8214	375	7	7439	360						
						1954	4	6345	5.0	315	3	8147	389	4	8252	386						
						1955	1	5630	5.1	287	1	6200	304	1	7772	353						
						1959	1	9650	4.2	406	1	8570	404									
						224888	18	53	7767	5.2	405	1947	2	7905	5.5	432						
												1948	5	9020	5.4	484						
												1949	7	7996	5.1	403						
1950	4	6750	4.6	322																		
1951	3	6557	4.6	298																		
1952	6	7728	5.1	393	1							8750	414									
1953	8	8173	5.2	421	2							8600	412	2	9058	451						
1954	6	8018	5.2	411	2							7600	370	2	8557	421						
1955	2	6985	5.1	457	1							6920	323									
1956	4	10095	5.3	539	1							7370	353	1	8066	400						
1957	3	9137	5.2	479	1							8000	411	1	8142	402						
1958	3	9443	5.4	508	1							8190	398	1	8502	414						
224987	2	10	7704	5.1	387							1947	4	8433	5.1	424						
												1948	2	7185	5.3	374						
						1949	3	7097	4.6	334												
						1952	1	9100	4.5	411												
227367	1	5	7230	5.3	386	1947	2	5980	5.3	312												
						1948	1	7410	5.3	396												
						1949	1	8280	5.6	460												
						1950	1	8500	5.3	450												
226073	3	10	7023	4.8	332	1947	3	7520	4.8	356	2	8960	412									
						1940	1	7710	4.8	368												
						1949	2	8575	4.9	420	1	8410	452									
						1950	1	10200	4.4	449	1	8700	438									
						1951	1	9910	4.2	419	1	8160	401									
						1952	1	10630	4.3	461	1	8550	432									
						1953	1	8030	4.8	382	1	8080	414	1	8651	445						
234517	2	4	7083	5.8	409	1948	1	5910	5.4	319												
						1949	1	6960	5.8	403												
						1951	1	7340	6.0	440												
						1953	1	8120	5.8	474												
243382	2	10	7226	4.4	323	1947	1	7270	4.9	354												
						1948	1	6530	5.6	364												
						1949	2	7095	4.6	329												
						1950	1	10570	4.5	474												
						1951	1	9300	4.6	428												
						1953	1	7180	4.6	345	1	8650	391	1	9548	404						
						1954	1	8660	4.5	394	1	5740	273	1	6802	364						
						1956	1	7630	4.6	352	1	6850	338	1	7794	359						
						1957	1	7210	4.9	353	1	6330	303	1	7706	362						
245488	3	7	9359	5.0	457	1949	1	10150	5.0	565												

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GULRNSEY																
						1950	3	9453	4.8	452						
						1951	2	8505	5.3	443						
						1952	1	9950	4.5	449						
245978	1	3	5953	5.3	317	1953	2	6300	5.3	335	2	6160	295			
						1954	1	5260	5.4	282	1	6770	332	1	6584	311
250298	3	4	7118	4.7	331	1947	2	7385	4.2	308						
						1950	1	5870	4.9	288						
						1951	1	8100	4.9	397						
256119	1	8	7891	4.4	350	1948	1	9440	4.6	436						
						1950	2	8410	4.3	361						
						1951	1	5200	4.5	237						
						1952	1	6430	4.9	312						
						1953	1	9030	4.5	410						
						1954	1	6990	4.2	290						
						1955	1	9220	4.2	390						
257182	1	1	8030	4.2	336	1947	1	8030	4.2	336						
257582	15	42	7611	4.9	364	1950	1	7260	6.1	445						
						1951	2	7680	5.6	419	1	11160	471			
						1952	7	6934	4.9	343	7	7997	382			
						1953	10	7212	5.1	356	9	7161	343	6	7681	361
						1954	6	7770	4.8	358	6	8708	387	4	8679	397
						1955	7	8771	4.6	404	7	9447	415	7	9226	403
						1956	5	8808	4.5	392	5	9842	414	5	9819	420
						1957	3	8670	4.3	373	3	9440	403	3	10381	444
						1958	1	11340	3.7	417	1	10640	434	1	10464	423
260735	3	6	7793	5.1	398	1947	5	7912	5.2	407						
						1948	1	5120	5.1	261						
264489	2	2	5225	5.1	262	1952	1	5250	5.3	277						
						1953	1	5200	4.8	247						
267795	5	13	6874	4.9	337	1947	1	5900	5.0	295						
						1948	2	6325	4.8	305						
						1949	2	9055	5.4	491	1	8510	415			
						1950	3	6957	5.0	346	1	8160	400			
						1951	2	6870	4.7	321	1	9490	475			
						1952	2	4715	4.6	218	1	9040	388			
						1953	1	8260	4.5	374						
268139	14	40	7193	5.2	368	1947	4	8293	4.9	401						
						1948	13	7280	5.2	375						
						1949	9	6656	5.2	349						
						1950	5	7188	4.8	341	1	8350	455			
						1951	5	6994	5.0	353	1	7030	352			
						1952	2	7835	5.5	432	2	8750	455			
						1953	2	7295	5.2	377	2	7870	397	2	8371	437
269867	1	1	8630	4.5	390	1953	1	8630	4.5	390	1	8570	393	1	6224	264
271911	7	11	6682	4.8	318	1948	3	7083	4.8	334						
						1949	1	7030	5.3	370	1	7370	364			
						1950	1	5240	5.3	276	1	6380	303			
						1952	2	7230	5.0	351	2	8535	359			
						1953	3	6450	4.5	288	3	9710	385	1	13472	508
						1954	1	7850	4.6	362	1	10650	395	1	10976	411
273331	4	6	6788	4.4	295	1951	1	9030	4.1	370	1	8630	410			
						1952	1	5440	4.9	266	1	6570	297			
						1953	4	6683	4.5	287	4	7065	315	2	6726	315
273849	1	7	6639	4.6	307	1947	1	6610	4.7	314						
						1948	1	8070	4.7	376	1	9440	436			
						1950	2	6665	4.3	284	2	7610	313			
						1951	1	6280	4.6	286	1	5220	227			
						1952	1	5190	4.7	242	1	6180	300			
						1953	1	6990	5.2	366	1	7000	318			
275061	1	3	8753	5.0	438	1949	1	10200	4.9	502						
						1950	1	7200	5.1	370						
						1951	1	8860	5.0	441						
275820	1	1	6530	4.6	300	1951	1	6530	4.6	300						
276283	1	2	11890	4.6	540	1956	1	11630	4.8	554	1	7610	377	1	7663	385
						1958	1	12150	4.3	525	1	10960	442			
276615	1	2	10225	4.6	466	1957	1	8920	4.8	430	1	10780	527			
						1958	1	11550	4.4	505						
276914	1	4	7148	5.5	395	1951	1	8120	5.5	445	1	7120	368			
						1952	1	6670	5.5	354	1	5100	281			
						1953	1	7190	5.9	427	1	7990	421	1	6638	332
						1954	1	6610	5.4	355	1	5630	304	1	6464	317
278547	1	3	9623	4.6	443	1949	1	10310	4.7	487						
						1951	1	10690	4.6	487						
						1953	1	7870	4.5	356						
279696	1	3	5907	4.2	247	1951	1	5760	4.3	245	1	7770	342			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTINUED MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
279854	2	6	6497	4.4	281	1953	1	6140	4.0	247	1	6700	311	1	7140	328
						1954	1	5820	4.3	248	1	6810	311	1	6867	313
						1952	2	5955	4.2	251	2	6700	297			
						1953	2	6685	4.5	298	2	6280	306	2	6644	312
						1954	1	6690	4.7	311	1	5740	269	1	6627	336
281673	6	9	7059	4.9	347	1955	1	7850	4.6	359	1	6390	289	1	5690	277
						1947	1	9030	5.2	468						
						1948	1	4870	6.0	294						
						1949	3	7950	4.7	380						
						1950	3	6457	5.0	336						
282050	6	7	6795	4.7	320	1951	1	6660	4.9	329						
						1947	1	8290	4.9	402						
						1949	1	7420	4.2	311						
						1950	2	5185	4.4	237						
						1953	2	8405	5.1	430	2	7420	377	2	9058	451
282240	5	12	8329	4.8	391	1954	1	3970	5.2	205	1	7860	383	1	8557	421
						1949	2	8800	5.3	469						
						1950	4	7110	5.2	364	1	6770	310			
						1951	2	8000	5.2	414	1	7170	332			
						1952	3	9010	4.5	393	1	6600	300			
282316	7	20	7067	4.7	331	1954	1	6100	4.9	302	1	6750	294	1	6867	313
						1950	3	5617	4.8	267						
						1951	5	7682	4.7	358	1	8420	378			
						1952	1	6970	5.2	363	1	9920	483			
						1953	4	8445	4.7	388	4	8955	420	3	9014	416
283091	5	9	6839	4.6	319	1954	2	8925	4.4	389	2	7810	377	1	6976	317
						1955	2	8170	4.7	372	2	7740	365	1	6660	298
						1956	3	7753	4.6	351	3	7920	385	1	7695	350
						1953	5	6758	4.6	313	5	8020	361	2	6513	322
						1954	3	6817	4.6	312	5	7920	356	3	8411	377
283563	9	35	8494	4.6	383	1955	1	4640	4.3	206	1	9420	383	1	10388	402
						1947	3	8987	4.6	413						
						1948	2	9205	4.9	445						
						1949	1	7500	4.8	352						
						1950	5	7954	4.6	367	1	6690	351			
283808	10	14	6864	4.6	312	1951	5	9388	4.5	421	3	8520	412			
						1952	8	8510	4.6	388	6	7965	384			
						1953	7	7689	4.5	356	5	7750	382	3	8335	417
						1954	4	8433	4.6	363	3	8060	382	3	8469	415
						1953	4	6820	4.1	282	3	7403	324	1	7881	368
284719	5	7	8623	4.5	386	1954	5	6508	5.1	326	5	6674	313	5	7251	343
						1955	3	7697	4.7	356	3	7650	343	3	7590	345
						1956	1	10580	4.7	495	1	10790	453	1	9657	417
						1957	1	4770	5.1	242	1	7740	358	1	9265	440
						1949	4	8813	4.7	406						
285271	1	4	5158	4.4	230	1950	2	9175	4.2	379						
						1951	1	9170	4.6	424						
						1947	1	7670	4.7	360						
						1948	1	2600	4.5	116						
						1949	1	6850	4.4	303						
285572	5	12	7968	4.6	365	1950	1	3510	4.0	141						
						1947	3	5823	4.6	268						
						1948	4	8110	4.6	367						
						1949	2	8725	4.8	421						
						1950	1	7670	5.4	411						
286560	1	2	6775	5.7	387	1952	1	6290	4.9	306	1	7510	328			
						1953	1	6540	4.5	287	1	9170	391	1	7161	312
						1947	1	7420	6.3	468						
						1948	1	6130	5.0	306						
						1950	1	7850	5.0	392						
288160	4	10	7172	5.0	357	1952	2	9240	5.1	464	1	8450	389			
						1953	1	5840	4.6	270	1	7890	354	1	8284	367
						1954	2	7120	5.0	358	1	7600	352	1	8066	363
						1955	2	7190	5.2	372	1	7640	352	1	8578	407
						1956	1	7490	5.1	380	1	8010	400	1	8371	403
288563	14	28	7574	5.1	387	1957	1	6320	5.1	323	1	8740	434	1	8546	421
						1947	1	6580	5.9	388						
						1949	2	6190	5.7	355						
						1950	4	7013	5.1	354						
						1951	3	7417	5.4	399	3	8690	447			
288923	1	2	8000	4.8	384	1952	5	7602	5.0	377	4	9183	403			
						1953	6	7387	4.8	354	6	7587	342	3	7285	339
						1954	5	8278	4.9	403	5	8348	380	5	7840	372
						1955	1	10080	5.3	539	1	10210	487	1	8339	404
						1956	1	8240	5.5	450	1	8480	426			
289083	1	1	9430	4.6	437	1954	1	8940	4.9	439	1	8880	424	1	9374	441
						1956	1	7060	4.6	328	1	8590	413	1	8480	405
289084	4	11	7855	5.2	408	1956	1	9430	4.6	437	1	10170	528	1	9919	479
289084	4	11	7855	5.2	408	1947	1	6700	5.9	392						
						1948	3	7063	5.3	372	1	7140	336			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AV. FAT LB.
GULBURN																
						1949	3	8713	4.9	430	2	7340	366			
						1950	1	5220	5.1	267	1	6040	299			
						1951	1	7210	4.9	351	1	6030	317			
						1952	1	7750	5.0	388						
						1953	1	5040	4.8	240	1	7120	356			
290518	2	2	5980	5.0	296	1951	2	5980	5.0	296						
290779	6	17	7118	4.9	354	1951	1	7690	5.1	393	1	7850	372			
						1952	2	6630	5.0	340	2	8345	410			
						1953	5	6774	5.1	353	3	7487	349	4	7617	362
						1954	4	7030	5.0	345	4	7750	348	4	7377	341
						1955	2	7885	4.8	364	2	8500	394	2	8164	392
						1956	3	8367	5.3	436	3	9027	403	3	8633	396
291023	10	36	7134	5.1	358	1948	1	7370	5.1	372						
						1949	4	6838	5.5	374	2	8680	433			
						1950	4	6275	5.5	341	1	7710	365			
						1951	6	7377	5.6	406	4	7995	379			
						1952	4	7075	5.3	375	4	6933	346			
						1953	6	6022	5.3	315	5	7156	348	4	6873	343
						1954	5	7180	4.6	338	4	9145	386	5	8424	388
						1955	4	8143	4.7	380	4	8680	368	4	8810	386
						1956	2	8705	4.3	370	2	8275	351	1	6322	288
291832	34	93	6930	5.2	356	1947	2	7495	5.2	388						
						1948	1	8640	5.1	439						
						1950	1	8880	5.0	446						
						1951	4	7655	5.4	415	1	8800	448			
						1952	4	7383	5.1	369	3	8013	400			
						1953	13	7122	5.2	371	10	7701	379	6	7583	339
						1954	23	6869	5.1	354	21	7856	356	19	7696	360
						1955	22	7517	5.2	376	20	8040	377	16	7437	347
						1956	10	7140	5.1	366	10	8818	405	8	8430	378
						1957	7	6877	5.0	343	7	8556	385	6	8671	392
						1958	3	8200	5.0	408	3	10020	418	3	9073	397
						1959	1	6070	5.7	344	1	10670	449	1	10998	419
						1960	2	8305	4.7	384	2	8515	377	1	8557	395
292507	3	5	6989	4.3	310	1948	1	5360	3.5	189						
						1950	1	9480	4.8	458						
						1953	1	6700	4.8	318						
						1954	1	6150	4.6	282						
						1955	1	5530	4.5	250						
295627	3	3	5810	5.5	326	1951	1	4150	5.0	206						
						1955	2	6640	5.8	386	2	8030	425	1	8589	436
295840	2	7	8439	4.7	371	1951	1	6420	5.0	320	1	6480	319			
						1953	1	7300	5.9	430	1	6700	334	1	8142	353
						1954	1	4920	5.8	287	1	6490	340	1	6813	358
						1955	1	4350	5.4	233	1	5840	352	1	6180	327
						1956	1	12470	4.0	494	1	8530	411			
						1957	1	10330	3.9	400	1	8710	396	1	8851	417
						1958	1	10590	3.6	379	1	7250	340	1	8905	405
297409	2	10	8110	4.8	388	1952	1	6810	4.7	318	1	7220	367			
						1953	2	8485	5.0	424	2	5925	268	2	6273	283
						1954	2	7875	5.0	391	2	7750	349	2	6273	287
						1955	2	9040	4.6	414	2	8200	367	2	7015	320
						1956	1	9330	5.0	419	1	7200	376	1	6867	347
						1957	1	8310	5.1	427	1	9370	465	1	6878	347
						1958	1	8470	4.4	373	1	8060	399	1	7052	353
297678	1	3	8733	4.2	362	1951	1	9420	4.0	376	1	7670	366			
						1953	1	8620	4.3	367	1	7180	357			
						1956	1	8160	4.2	344	1	7110	377	1	8197	402
297876	3	5	6430	5.0	321	1951	1	5370	4.9	262						
						1952	1	5620	4.7	264	1	6150	273			
						1953	3	6850	5.0	344	2	7180	345	2	6726	315
301080	3	7	8177	4.7	383	1952	2	8120	4.9	399	2	8375	420			
						1953	3	8067	4.5	370	3	7603	349	2	8001	399
						1954	1	9960	4.8	475	1	9760	483	1	9875	487
						1955	1	10400	4.5	470	1	8220	413	1	9974	505
303322	5	9	8410	5.2	427	1954	4	7878	5.1	391	4	7545	374	4	7826	387
						1955	1	9140	4.5	407	1	9000	491	1	9974	505
						1956	1	10670	4.0	425	1	9370	491	1	9505	476
						1957	2	10220	4.9	497	2	9215	467	2	9461	478
						1958	1	10740	3.9	415	1	10550	517	1	9679	494
303546	8	20	7004	4.7	326	1951	2	6910	4.4	300						
						1952	2	5785	5.0	288	2	6290	319			
						1953	3	6953	4.5	312	3	6790	299	2	7832	355
						1954	4	6463	4.7	303	4	7140	324	3	6507	302
						1955	5	7184	4.7	371	5	7026	359	5	7510	356

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
GUERNSEY																
						1956	1	9200	5.6	458	1	8690	424	1	9897	474
						1957	1	7000	4.6	339	1	9200	447	1	6971	441
						1958	1	8760	4.6	422	1	9630	439	1	9843	473
						1959	1	8760	4.6	420	1	10330	462	1	10475	476
305336	3	7	5762	5.2	302	1947	5	5664	5.5	302						
						1948	1	7480	5.1	382						
						1950	1	5910	4.9	269						
306720	1	8	5948	4.9	295	1950	1	5040	5.3	265	1	6970	347			
						1952	1	5470	4.4	239	1	8050	358			
						1953	2	6730	5.2	347	2	7910	383			
						1954	1	6240	4.8	301	1	7290	343	1	7892	392
						1955	1	5420	5.4	295	1	7800	364	1	7063	343
						1957	1	6260	4.9	305	1	7050	333	1	6965	342
						1958	1	5690	4.4	249	1	6540	302	1	6660	325
306818	1	4	7805	4.8	373	1947	2	7825	4.5	348						
						1949	1	8070	5.2	418						
						1950	1	7500	5.0	377						
306982	9	27	6721	4.9	325	1950	1	8750	4.6	401	1	8000	403			
						1951	3	7160	5.0	355	2	6670	361			
						1952	4	8020	4.6	371	4	7090	336			
						1953	5	7002	4.6	325	5	6026	294	5	6854	322
						1954	5	6480	4.7	301	5	6638	331	4	6625	330
						1955	5	6448	4.5	291	5	6724	333	4	7265	355
						1956	5	5760	5.0	292	3	8090	395	2	7930	380
						1957	1	7770	5.1	395	1	8730	447	1	7565	386
308216	1	3	5640	4.2	239	1951	1	5150	4.2	216						
						1952	1	5890	4.4	259						
						1953	1	5880	4.1	242						
308620	1	3	7487	4.3	316	1954	1	6390	4.6	304	1	5660	268	1	6791	331
						1955	1	8250	3.9	322	1	6950	321	1	6900	325
						1956	1	7820	4.1	323	1	8060	366	1	7804	386
308632	7	10	7851	5.1	397	1948	3	7690	5.0	379						
						1949	6	7665	5.2	395						
						1950	1	6440	5.0	323						
310137	6	14	8067	4.8	386	1952	3	7087	5.1	356	1	10990	432			
						1953	3	8897	4.9	442	3	8263	394	3	8513	405
						1954	1	9730	4.5	437	1	7060	358	1	8066	425
						1955	2	8700	4.7	400	2	7235	365	2	7036	350
						1956	1	7430	6.2	461	1	10880	382			
						1957	1	10520	4.2	442	1	8540	425	1	8186	422
						1958	3	8500	4.6	391	3	7853	377	2	7569	358
310151	2	2	10035	4.2	420	1950	1	10800	4.1	447						
						1951	1	9270	4.2	392						
311574	14	20	6822	4.7	317	1953	6	6537	4.7	309	5	7908	356	6	8068	375
						1954	9	7068	4.6	336	8	7476	360	8	7434	366
						1955	4	7433	4.7	343	3	7440	356	3	6758	323
						1956	1	7260	4.6	337	1	7570	368	1	8121	391
311775	5	14	7648	5.0	381	1951	1	10510	5.6	392	1	10270	323			
						1952	4	8363	5.3	445	4	8683	423			
						1953	2	7050	4.6	336	2	6580	307	2	6835	332
						1954	5	7980	5.0	402	5	8606	409	5	8489	411
						1957	1	6400	5.0	320	1	7470	352			
						1958	1	7500	4.9	365	1	10050	445	1	7129	331
311994	8	16	7131	4.9	350	1949	1	6950	5.1	351						
						1950	3	7600	4.9	364						
						1951	4	7075	4.8	338						
						1952	5	7308	4.9	360						
						1953	1	7920	4.6	365	1	8170	316	1	8938	359
						1954	1	7760	4.7	361	1	9310	341	1	8894	349
						1955	1	4990	4.4	218	1	7380	255	1	9211	344
312401	2	5	8195	5.2	419	1956	2	8715	5.1	441						
						1957	1	9160	5.1	468						
						1958	1	9330	5.0	464						
						1959	1	7260	4.8	352						
313377	7	17	7173	4.8	346	1948	3	6913	4.5	313						
						1949	2	9415	4.7	440						
						1950	5	7724	4.9	377	1	6760	314			
						1951	3	7983	4.9	389	1	6850	305			
						1952	2	8480	4.9	407	1	6440	290			
						1953	2	6870	4.8	325	1	6940	310	1	7140	328
313997	63	147	7641	4.9	368	1951	5	7060	4.7	340	3	8067	332			
						1952	14	7031	4.9	344	12	8201	387			
						1953	22	8057	4.6	385	20	7610	367	14	7180	343
						1954	34	7159	5.0	354	32	8006	376	25	7762	368
						1955	34	7549	5.0	376	34	8685	401	32	8002	377
						1956	16	7801	5.0	387	16	9271	409	15	8807	396
						1957	14	7867	4.9	366	13	8950	415	13	8806	417
						1958	6	8690	4.5	376	4	9333	413	5	7039	393
						1959	2	8685	4.1	340	2	9455	418	2	8873	385
314163	5	17	7560	4.6	352	1952	1	11130	4.7	322	1	11210	449			



TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
GUERNSEY																	
						1953	4	7530	4.7	352	3	8490	349	1	10246	380	
						1954	1	8840	4.2	368	1	7320	323	1	7140	318	
						1955	4	8218	4.9	403	4	8058	355	4	8001	331	
						1956	2	8180	4.6	368	2	8545	346	2	9271	346	
						1957	4	7913	4.9	382	4	8130	362	4	8006	367	
						1958	1	6600	4.6	304	1	6870	321	1	8491	395	
316080	37	95	6861	5.1	348	1950	1	7320	5.4	394	1	8080	451				
						1951	3	6210	5.6	346	2	7825	409				
						1952	10	7277	5.5	384	7	8607	412				
						1953	27	6857	5.1	348	24	8295	377	23	8174	371	
						1954	20	6756	5.2	347	19	7524	377	15	7866	372	
						1955	16	6459	5.1	330	16	8116	351	14	7697	354	
						1956	10	7205	5.2	372	10	8929	404	10	9083	431	
						1957	6	7198	5.4	372	6	8897	385	6	9436	428	
						1958	1	8190	5.3	433	1	9860	522	1	8753	447	
						1959	1	8150	5.6	456	1	9890	498	1	9865	497	
316166	2	6	6573	4.5	295	1951	2	6980	4.6	322	1	8790	429				
						1952	1	5190	4.4	228	1	6310	300				
						1953	1	5750	4.4	253	1	5870	267	1	7488	361	
						1954	1	5570	4.5	238	1	8170	387	1	6344	299	
						1955	1	6420	4.3	279	1	7530	359	1	7717	367	
318218	1	1	8410	4.9	412	1952	1	8410	4.9	412							
319210	2	2	7085	4.9	341	1954	1	7810	4.6	360	1	8180	400	1	8415	409	
						1955	1	6360	5.1	321	1	7540	377	1	8033	379	
319654	15	32	7577	4.7	352	1953	5	7604	4.6	350	5	7192	326	3	7205	306	
						1954	8	6835	4.6	312	8	7430	337	7	7882	364	
						1955	0	7755	4.7	366	8	8089	375	7	7800	352	
						1956	6	8175	4.5	368	6	8228	381	5	8240	370	
						1957	3	7707	4.8	353	3	8807	371	3	8556	380	
						1958	1	9630	5.0	480	1	10320	515	1	10519	514	
						1959	1	10396	4.2	432	1	9750	477	1	10508	529	
319810	7	23	7225	5.1	367	1948	1	6450	6.1	394							
						1949	5	6940	5.2	360							
						1950	5	7570	5.0	376							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
324677	10	21	8083	5.1	401	1949	1	7020	4.9	341	1	7450	373			
						1950	1	8020	4.4	353	1	7940	366			
						1951	1	7390	4.6	337	1	7950	396			
						1952	2	5120	4.3	218	1	6480	340			
						1953	2	6395	4.4	283	2	7875	324	2	7848	323
						1950	1	9500	4.6	439						
						1951	3	6827	5.0	337	3	7013	347			
						1952	4	8610	5.1	426	3	7267	373			
						1953	6	7517	5.3	389	4	7308	373	2	7865	401
						1954	4	6975	5.5	381	4	7885	393	4	8287	424
326212	1	6	8802	4.8	423	1955	3	6267	5.7	356	3	9043	401	3	8520	437
						1950	1	7440	5.1	376	1	13590	709			
						1952	1	10520	4.7	499	1	12940	554			
						1953	1	8420	5.0	417	1	9340	434	1	8339	412
						1954	1	10180	4.9	494	1	8660	385	1	8033	376
						1955	1	10060	4.5	456	1	7950	358	1	9494	423
						1956	1	6190	4.8	295	1	7120	317	1	7270	347
						1948	1	6830	5.4	367						
						1949	3	6300	5.5	340						
						1950	2	5840	4.9	285						
330319	1	1	6350	4.8	302	1952	1	6330	4.8	302						
						1953	1	8060	4.9	397	1	9400	437	1	8339	412
						1954	1	9770	4.5	440	1	9670	438	1	8033	376
						1955	1	6760	5.2	353	1	6560	313	1	9494	423
						1957	2	7325	4.7	341	2	8985	420	2	6202	277
330785	1	5	7848	4.8	374	1950	1	8400	5.0	423	1	8190	387			
						1951	3	7403	5.1	373	1	7710	397			
						1952	4	6463	4.7	397	3	8193	397			
						1953	13	8747	4.7	415	12	7368	365	9	7592	343
						1954	17	8262	4.6	397	16	7769	371	16	7638	367
						1955	12	7908	4.9	384	12	8052	380	12	7987	380
						1956	8	8434	4.9	408	8	9504	428	8	9106	415
						1957	9	8843	4.8	424	7	8879	424	7	8508	406
						1958	4	8580	5.0	417	4	10048	454	3	9443	438
						1959	1	8460	4.9	418	1	9510	426	1	11990	497
331114	43	81	7513	4.9	365	1950	5	7136	5.1	356	5	8272	393			
						1953	28	7446	5.0	367	27	7885	372	18	7823	362
						1954	23	7887	4.8	381	22	8107	377	21	8120	377
						1955	14	8736	4.8	421	13	10172	444	11	9218	419
						1956	9	8286	5.1	417	8	10738	454	7	10635	453
						1957	1	7240	5.1	366	1	9810	388	1	10399	415
						1958	1	13540	5.7	770	1	9960	507	1	10399	502
						1951	1	3570	4.6	165						
						1952	2	9870	4.4	433	2	8240	363			
						1954	1	9240	4.5	413	1	5760	271	1	8589	422
332065	6	18	7134	4.7	331	1950	1	6950	5.0	347	1	7830	390			
						1951	1	8660	4.7	405	1	6800	341			
						1952	3	6727	4.7	319	3	7157	331			
						1953	4	6695	4.9	331	4	7003	363	4	6281	314
						1954	5	6038	4.7	285	5	7256	352	4	7102	356
						1955	2	8245	4.7	382	2	7515	369	2	7189	348
						1956	1	6520	4.7	304	1	8360	394	1	8698	417
						1957	1	7510	5.1	382	1	10950	512	1	8164	387
						1947	2	6550	4.9	322	1	6390	316			
						1948	1	5890	5.3	314	1	6990	350			
332645	3	9	7327	4.5	330	1949	2	8335	4.6	393	1	7260	354			
						1950	1	8670	4.1	356	1	7860	366			
						1951	1	7470	5.3	398	1	7940	389			
						1952	1	7230	5.2	377	1	7500	363			
						1953	1	5670	5.3	300	1	7550	358	1	7946	373
333200	5	8	5292	5.7	300	1950	1	8670	4.1	356	1	7860	366			
						1951	1	7470	5.3	398	1	7940	389			
						1952	1	7230	5.2	377	1	7500	363			
						1953	1	5670	5.3	300	1	7550	358	1	7946	373
						1954	4	5588	5.5	302	4	7490	339	4	7009	359
						1955	3	5463	6.1	333	3	9190	431	3	8077	343
						1956	1	7860	5.8	454	1	7620	385	1	7804	409
						1952	2	6600	5.2	343	2	5795	270			
						1953	7	6830	5.5	374	7	7237	357	4	6573	317
						1954	2	6530	5.4	353	2	7320	343	2	6699	318
334545	8	14	6964	5.4	376	1955	2	6445	5.0	318	2	7615	361	2	7107	334
						1956	1	6010	4.9	297	1	6520	332	1	7358	356
						1953	1	5390	6.4	344	1	6560	304	1	7358	370
						1954	1	5230	6.1	318	1	7440	333	1	6758	323
						1955	4	5060	4.9	252	4	7410	353	4	7331	348
						1956	1	6940	5.4	372	1	7400	381	1	7488	364
						1951	1	6690	4.6	308	1	7630	362			
						1952	1	6410	4.9	314	1	8090	388			
						1953	1	7500	5.2	390	1	8970	441			
						1954	6	7150	4.7	340	6	7573	367	5	7521	367
335156	20	41	7760	4.7	362	1955	9	8337	4.8	398	9	8159	382	8	7716	365
						1956	12	8158	4.7	382	11	8444	411	8	7600	366
						1957	8	7363	4.7	349	7	8527	422	6	8097	395
						1958	3	8517	4.3	364	2	9010	413	1	8698	440

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
GUERNSEY																
336004	4	8	8138	4.4	360	1952	2	8165	4.4	353	1	7760	362			
						1953	2	7850	4.5	354	2	7985	359	2	7401	335
						1954	2	8685	4.5	394	2	7755	368	2	8088	372
						1955	2	7795	4.5	352	2	8230	397	2	8736	415
337861	12	25	8220	4.9	400	1952	1	9650	4.6	441	1	7660	369			
						1953	4	8503	4.8	410	4	7190	342	1	9025	438
						1954	6	8683	4.7	409	6	7673	363	6	7617	353
						1955	2	9340	4.8	440	2	7580	366	2	8246	372
						1956	5	8236	5.1	412	5	8044	406	2	8947	436
						1957	4	8970	5.0	441	4	8595	414	4	8271	412
						1958	1	7030	4.6	321	1	10080	457	1	8153	405
						1959	2	7610	4.6	350	1	6970	361	1	7794	407
338467	11	27	7397	4.9	350	1952	4	6558	4.9	325	4	6933	331			
						1953	7	6293	5.2	323	6	7272	354	5	6974	334
						1954	6	7056	4.8	336	8	6921	346	8	7445	365
						1955	5	9544	4.6	431	5	8278	419	4	8173	377
						1956	2	10600	4.2	436	2	9655	481	1	9505	476
						1957	1	7910	4.7	370	1	10240	519	1	9559	463
338835	2	4	8513	4.4	375	1952	1	8990	4.0	360	1	8960	430			
						1953	2	8955	4.6	409	2	9260	407	2	8393	402
						1954	1	7150	4.5	320	1	7570	353	1	6616	314
339322	1	3	6723	5.2	351	1953	1	6230	5.4	339						
						1954	1	5570	5.0	279						
						1955	1	8370	5.2	435						
339328	39	84	7806	4.8	369	1951	1	5900	4.4	260	1	5880	248			
						1952	6	7375	5.0	367	4	7655	374			
						1953	10	7383	4.8	357	10	7559	358	8	7759	360
						1954	17	7494	5.0	371	17	8224	370	14	7603	372
						1955	16	8365	4.5	380	15	9200	406	15	8051	356
						1956	17	8391	4.7	389	17	9434	424	16	8704	402
						1957	11	8439	4.7	397	11	9162	436	11	8219	403
						1958	3	8603	4.4	381	3	7727	361	3	8073	363
						1959	3	8963	4.0	359	3	8003	364	3	7957	364
340519	1	2	5880	4.6	273	1951	2	5880	4.6	273						
340809	54	149	7581	4.7	357	1950	6	8257	4.8	396	5	8292	396			
						1951	11	7686	4.7	358	9	7687	374			
						1952	24	7593	4.8	360	19	7721	365			
						1953	40	7659	4.8	367	37	7628	371	32	7658	371
						1954	25	7029	4.9	341	25	7270	349	24	7533	372
						1955	17	7728	4.8	371	17	7651	370	17	7696	372
						1956	12	8038	4.8	385	12	8262	390	10	7970	374
						1957	9	8837	4.6	404	8	8208	374	6	7912	381
						1958	3	7977	4.7	377	2	8220	382	2	8568	403
						1959	2	7965	4.5	350	2	8545	386	2	8088	381
346295	8	19	6855	5.3	360	1954	2	8370	4.7	392	2	8255	406	2	8426	420
						1955	7	7409	5.3	393	7	8250	406	7	8088	387
						1956	5	7446	5.2	388	5	8464	418	5	7985	392
						1957	3	7307	5.7	418	3	8690	398	3	8789	422
						1958	1	6380	6.2	393	1	9100	413	1	8753	402
						1959	1	4150	4.9	204	1	6310	303			
346451	3	7	9900	4.4	437	1952	1	10430	4.5	467	1	8050	398			
						1953	1	11260	3.9	440	1	9620	398	1	7554	347
						1954	2	9560	4.7	449	2	9295	424			
						1955	1	8920	4.5	400	1	8450	388	1	8480	396
						1957	1	8850	4.0	358	1	9820	454			
						1958	1	9580	4.1	392	1	8950	420			
347781	1	4	7498	4.7	351	1952	1	8680	4.5	387						
						1953	1	7960	5.0	400						
						1954	1	6640	4.6	306						
						1956	1	6710	4.6	311						
348120	4	16	7251	5.1	361	1951	1	6970	5.0	348	1	8740	426			
						1952	2	6925	4.8	331	1	7790	365			
						1953	3	7807	4.8	374	3	7717	376	2	7025	318
						1954	1	6540	4.8	316	1	9000	420			
						1955	3	8227	4.8	391	3	8457	409	2	7930	365
						1956	3	7257	5.2	385	3	8777	437	2	8796	412
						1957	3	5990	5.4	312	3	8077	394	3	8284	398
349213	4	8	6673	4.9	331	1951	1	7550	5.8	440						
						1952	3	5970	4.9	299						
						1955	1	7570	4.9	374	1	7180	344			
						1956	2	7970	4.4	343	2	7775	363			
						1957	1	8140	4.6	373	1	6200	390			
349272	7	19	7623	4.9	369	1952	3	7873	4.8	371	2	6130	293			
						1953	4	7505	5.2	387	4	7020	356	3	7456	376
						1954	5	7124	4.9	349	5	7738	382	4	8074	386
						1955	4	6230	5.1	315	4	8068	378	4	7859	371
						1956	3	7603	5.1	398	3	8113	377	3	8404	386
349288	2	4	7723	4.6	348	1956	1	8780	4.1	362	1	8310	402			
1957	3	7370	4.7	342	2	7905	380	2	8197	401						
349633	6	16	7818	4.6	357	1949	1	8890	4.7	417						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1950	1	11670	4.7	494						
						1951	1	12210	4.5	547						
						1952	4	7173	4.5	316	1	6540	305			
						1953	2	7795	4.4	338	1	8220	345	1	7358	354
						1954	2	6445	5.1	332	2	5855	286	1	6791	351
						1955	1	7860	5.3	414	1	7000	310	1	6900	375
						1956	1	7460	5.1	384	1	7560	358	1	7804	386
						1957	1	8620	4.9	421	1	8550	412	1	8175	400
						1958	1	8770	4.8	422	1	8670	416	1	8524	402
						1959	1	6710	4.9	332	1	9780	464	1	9690	468
349653	1	1	9130	4.8	433	1952	1	9130	4.8	433						
350370	4	4	8163	5.0	409	1952	3	8430	5.0	418	3	9983	472			
						1958	1	7560	5.2	383						
352592	4	7	7762	4.7	366	1952	1	10470	5.2	542	1	10400	537			
						1953	2	8310	4.9	410	2	7605	369	1	9690	497
						1954	2	7820	4.6	361	2	7325	354	2	8508	405
						1955	1	6160	4.9	402	1	7680	368	1	7303	322
						1956	1	7200	4.4	319	1	6640	327	1	8731	404
352695	22	50	8274	4.7	384	1951	1	4470	5.1	229	1	6760	315			
						1952	5	8802	4.9	421	4	7295	354			
						1953	12	8500	4.7	391	12	7667	384	11	8435	414
						1954	11	7459	4.9	362	11	7699	380	10	7823	395
						1955	8	7464	5.4	393	8	7509	378	6	7056	362
						1956	4	9265	4.7	432	4	8445	415	2	7930	360
						1957	2	9875	4.4	433	2	7880	400	2	8688	430
						1958	4	8898	4.0	360	3	7720	355	1	7129	351
						1959	2	8595	4.5	368	2	7460	356	2	7292	351
						1960	1	6740	4.2	283	1	7360	330	1	7445	345
352950	4	11	8030	4.8	388	1949	1	8110	5.8	466	1	9680	504			
						1950	3	8017	5.1	405	1	8560	397			
						1951	2	6520	4.5	294						
						1952	1	9010	4.4	398	1	8900	468			
						1953	1	8040	5.1	412	1	9110	423			
						1954	1	9460	4.3	365	1	8040	385	1	8480	414
						1955	1	8950	4.7	417	1	7310	364	1	8644	410
						1956	1	10870	4.7	509	1	7660	370	1	8230	404
353269	2	7	8946	5.3	470	1950	2	9120	5.6	510	1	13120	529			
						1951	2	9670	5.2	500	2	11045	456			
						1953	2	9295	4.8	447	2	8495	462			
						1954	1	6550	5.4	345	1	10380	427	1	9712	368
353790	3	3	7737	4.8	368	1954	2	6680	4.9	328	2	7055	338	1	5810	269
						1957	1	9850	4.5	447	1	8110	413	1	7837	364
354073	11	22	8578	4.9	421	1953	3	7787	4.6	360	3	7767	375	2	6971	360
						1954	6	9035	4.6	415	6	8012	380	5	8620	394
						1955	5	8642	4.9	423	5	8640	412	5	8665	386
						1956	4	8725	5.1	441	4	9208	449	3	8760	410
						1957	2	10025	5.1	494	2	9145	439	2	8845	399
						1958	2	8545	5.5	471	2	9455	436	2	10263	466
354147	5	13	6453	4.9	320	1952	1	3740	4.9	164	1	5720	258			
						1953	2	7390	5.0	372	2	6595	317	1	7358	370
						1954	3	5465	4.8	263	3	6020	277	3	6373	306
						1955	1	6900	5.0	348	1	7110	327	1	7118	325
						1956	3	7815	5.2	404	3	7783	397	3	7593	371
						1958	1	7960	4.8	386	1	11310	455			
						1959	1	8150	4.6	375	1	10210	499	1	9701	470
						1960	1	7810	4.8	373	1	8520	424	1	9657	479
354224	1	1	7850	4.3	334	1957	1	7850	4.3	334				1	7881	377
354977	10	17	8142	4.4	353	1951	1	5770	4.5	246						
						1952	4	8150	4.5	345	3	7597	368			
						1953	5	8022	4.2	328	5	8504	368	3	8502	379
						1954	4	7580	4.6	343	3	8517	399	4	6919	342
						1955	2	10300	4.5	441	2	10815	475	2	9307	396
						1956	1	11870	4.7	557	1	10210	525	1	9003	427
355910	5	6	5810	4.4	252	1954	3	4837	4.5	207	3	6530	295	2	6758	373
						1955	3	6567	4.6	296	2	6745	306	2	7385	348
356455	1	2	7670	4.9	374	1953	1	7610	4.9	373	1	7460	370	1	7804	402
						1955	1	7730	4.8	374	1	7590	387	1	7545	370
357719	5	12	7834	4.5	351	1951	1	11330	5.9	459						
						1952	1	9950	4.4	437						
						1953	3	9517	4.7	445						
						1954	3	6730	4.2	284	1	9450	399	1	8088	358
						1955	2	7085	4.7	345						
						1956	1	8230	5.3	476						
						1957	1	8330	4.9	406						
357746	23	44	6924	5.2	359	1950	1	10010	5.4	545						
						1952	2	7765	4.9	378						
						1953	6	5712	4.9	279	4	7668	337	2	6971	316
						1954	12	6431	5.2	329	9	7909	377	7	7541	364
						1955	13	7401	5.2	379	12	8539	416	11	8040	386
						1956	4	9538	5.6	478	4	9333	459	4	9322	475

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										505-DAY CONTM. AV.			YEARLY HERD AVERAGE		
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
GULFENSEY																					
						1957	4	7815	4.9	386	2	9315	4.5		3	8985	4.32				
						1958	1	6850	4.3	298											
						1959	1	9100	5.0	456	1	7910	3.64		1	9200	4.26				
357911	2	5	8716	5.3	461	1951	1	7820	5.6	435	1	8410	4.19								
						1952	2	9085	5.4	487	2	8945	3.58								
						1953	1	8280	5.1	423	1	9060	4.46								
						1954	1	9790	4.9	478	1	8430	4.21		1	9341	4.51				
358118	6	14	7393	4.8	352	1952	6	7618	4.9	371	3	8997	4.16								
						1953	5	7440	4.6	342	3	8160	3.83		4	8505	3.99				
						1954	2	6575	4.6	316	2	7555	3.60		2	7178	3.27				
						1955	1	5830	5.0	293	1	5970	3.00		1	6932	3.24				
359066	23	48	7600	4.8	365	1953	5	7860	4.8	376	5	7532	3.64		3	8189	3.53				
						1954	9	7544	4.7	355	9	7477	3.56		9	7560	3.57				
						1955	10	8516	4.6	403	10	8469	3.89		7	8785	4.13				
						1956	12	8118	4.7	379	12	9119	4.06		9	8965	4.06				
						1957	5	7102	4.8	335	5	7514	3.59		5	8790	4.22				
						1958	3	7717	4.4	340	3	9980	4.81		3	9138	4.54				
						1959	4	7483	5.2	394	2	8600	3.88		1	9374	4.29				
361350	4	9	5910	4.9	283	1951	4	5620	4.9	270											
						1952	2	6265	5.0	310	1	7360	3.81								
						1953	2	5995	4.9	298	1	7680	3.59		1	6529	3.56				
						1954	1	7250	4.5	323	1	7860	3.66		1	6813	3.24				
361533	2	4	7827	4.9	376	1955	2	8200	4.8	390	2	8870	4.16		2	9554	4.28				
						1956	1	8360	4.7	390	1	7650	3.78		1	8186	3.99				
						1957	1	9240	4.7	436	1	9160	4.34		1	8720	4.28				
361559	14	31	6964	4.9	341	1953	1	7950	4.9	392	1	9010	4.47		1	9003	4.26				
						1954	5	6426	4.9	319	4	8395	4.05		4	7249	3.63				
						1955	8	7621	5.1	390	8	8314	4.06		6	7694	3.69				
						1956	6	7773	4.9	379	6	7915	4.06		2	8453	4.21				
						1957	6	6748	4.9	325	5	7892	3.99		5	8337	4.19				
						1958	2	7705	4.9	373	2	8070	3.83		2	6082	3.92				
						1959	2	7710	4.7	363	2	8230	4.10		2	8453	4.13				
						1960	1	4876	4.6	233	1	8440	3.80								
362239	2	4	6490	4.9	320	1952	1	7220	5.0	362	1	8200	3.52								
						1953	1	6690	5.4	360	1	7630	3.46								
						1956	1	6340	5.3	333	1	7610	3.41		1	7990	3.55				
						1957	1	6230	4.6	267											
362642	3	8	6668	4.8	315	1953	2	8170	4.8	391	2	7490	3.39		2	7701	3.60				
						1954	3	6407	4.8	299	3	6960	3.15		3	7060	3.50				
						1955	1	10420	4.4	434	1	8650	3.88		1	7739	3.44				
						1956	1	9710	4.2	409	1	7660	3.60		1	7990	3.55				
						1957	1	6050	4.2	256	1	7190	3.21		1	8546	3.77				
363763	4	8	8808	5.3	458	1955	3	7983	5.4	430	3	9407	4.41		3	9617	4.28				
						1956	3	8987	5.4	471	3	9207	4.28		3	9701	4.70				
						1957	2	9625	4.9	461	2	8415	3.64		2	10115	4.91				
364307	1	1	11440	4.5	520	1958	1	11440	4.5	520	1	10460	5.22		1	10170	4.93				
365713	45	104	7139	4.8	342	1952	2	5990	5.1	306	2	7120	3.35								
						1953	18	7517	4.6	344	17	8746	3.81		14	8752	3.64				
						1954	22	7425	4.7	346	22	7674	3.65		21	8147	3.80				
						1955	25	7200	4.8	341	25	8248	3.74		25	8259	3.79				
						1956	19	7265	4.8	348	19	8926	4.05		17	8698	4.04				
						1957	12	7920	4.7	373	12	9237	4.27		10	8671	3.91				
						1958	5	7632	4.7	353	5	10336	4.50		4	9301	4.02				
						1959	1	7660	4.7	359	1	8320	3.74		1	8273	3.90				
366082	6	13	9083	4.5	403	1955	3	7497	4.6	342	3	7973	4.03		3	9080	3.74				
						1956	4	8680	4.4	381	4	8293	4.33		4	8505	4.23				
						1957	2	10935	4.7	504	2	9000	4.51		2	8889	4.75				
						1958	2	10580	4.6	462	2	9330	4.52		1	10519	5.14				
						1959	2	9006	4.4	394	2	11115	4.59		2	10219	4.17				
367978	20	40	8578	4.8	412	1954	5	7506	5.0	369	5	7666	3.66		4	8448	4.04				
						1955	10	8616	4.8	421	9	8672	4.22		9	8043	3.84				
						1956	11	8772	4.8	421	10	8457	3.96		9	8674	4.08				
						1957	7	9791	4.9	478	7	9530	4.51		7	9145	4.55				
						1958	6	9137	4.8	443	6	8833	4.22		6	8925	4.45				
						1959	1	8910	5.7	507	1	8930	4.40		1	9025	4.46				
368868	1	3	6760	5.3	355	1952	2	6855	5.2	353	2	9170	4.46								
						1953	1	6570	5.5	360	1	8940	4.49		1	8720	4.22				
369733	79	137	7369	5.2	380	1953	2	6480	5.2	337	2	7030	3.82		2	7783	3.68				
						1954	14	6796	5.2	354	14	7896	3.71		8	7438	3.57				
						1955	29	7634	5.2	395	29	8668	4.04		29	7760	3.69				
						1956	42	7706	5.2	401	42	8336	3.97		37	8286	3.97				
						1957	34	7461	5.1	378	33	8347	3.85		30	8521	4.09				
						1958	12	8196	4.9	401	8	9344	4.05		8	9178	4.02				
						1959	3	7657	5.9	453	2	9025	4.47		3	5941	4.17				
						1960	1	7130	4.9	352	1	10950	3.90		1	10715	4.17				



RECORD AVERAGE BY SEX BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GULNRSLY																
373258	8	20	6732	5.6	373	1952	1	5370	5.8	309	1	6880	391			
						1953	5	6196	5.5	336	4	7453	380	2	7456	354
						1954	3	6627	5.6	376	3	6965	347	3	7419	362
						1955	4	6785	5.5	376	4	7908	385	3	6856	339
						1956	4	7690	5.6	435	3	8760	424	1	6965	350
						1957	1	8920	6.6	587	1	9140	430	1	9287	465
						1958	1	8480	6.0	511	1	12610	509			
						1959	1	8496	6.0	511	1	7850	383	1	9167	455
375262	10	23	7427	4.8	360	1954	3	6413	4.7	304	3	6833	312	3	6471	312
						1955	6	6645	4.7	312	6	7670	342	6	7456	346
						1956	5	6892	4.6	333	5	7736	351	4	7944	362
						1957	3	7710	4.7	363	3	8413	392	2	8361	369
						1958	3	7563	4.5	339	3	8220	386	2	8295	382
						1959	3	10637	5.3	566	2	9035	436	2	8698	424
375476	1	1	6100	4.0	246	1955	1	6100	4.0	246	1	8140	387	1	7837	363
375956	4	4	9173	4.7	415	1957	1	9350	5.1	474	1	8750	408	1	9581	444
						1958	3	9113	4.5	395	2	10330	529	2	10170	493
376756	13	26	7802	4.9	382	1952	5	8364	4.6	383	4	8140	365			
						1953	10	8464	4.9	411	7	8250	377	6	8397	377
						1954	4	7078	5.2	362	3	8647	383	2	8088	372
						1955	5	8046	5.2	414	4	8603	403	4	8657	411
						1956	1	8400	4.9	410	1	8740	420	1	8371	403
						1957	1	6430	4.7	303	1	7720	389	1	8546	421
377693	2	2	8650	4.2	362	1953	2	8650	4.2	362	2	7400	366	1	7717	396
378211	26	54	7933	5.0	396	1954	5	9300	5.0	455	5	8470	422	5	8733	427
						1955	7	9337	4.9	461	7	8216	415	6	8523	405
						1956	15	7598	5.0	376	15	7429	370	11	7757	383
						1957	11	7914	5.0	395	11	8413	414	11	8510	422
						1958	7	7793	4.9	381	7	7260	411	4	8813	389
						1959	7	7887	5.1	401	5	8684	412	4	8481	395
						1960	2	9040	4.9	438	2	9125	430	1	8502	399
378817	2	5	6318	5.2	324	1950	1	6950	5.1	354						
						1951	1	4540	4.9	223	1	3900	199			

TABLE 15.--DAUGHTER-AVERAGE OF SIRS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM'P. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
385258	2	5	7697	4.9	378	1954	1	7780	5.4	421	1	7160	362	1	6464	317
						1955	1	6030	4.7	266	1	6560	327	1	7031	359
						1956	2	7915	4.7	372	2	7350	365	1	6878	344
						1957	1	8440	5.0	423	1	6210	419	1	7565	366
385567	13	26	7258	4.8	345	1954	4	7093	5.1	354	4	6953	388	4	8279	355
						1955	6	7533	4.7	349	6	8602	403	6	8642	394
						1956	3	6791	4.9	332	8	8031	388	8	8386	398
						1957	4	7090	5.0	353	4	8303	367	4	7706	359
						1958	2	7070	4.9	345	1	7760	379			
						1959	2	7900	4.6	362	2	7685	353	2	8360	408
386829	3	4	7583	5.2	391	1956	2	7665	5.4	414	2	10860	469	2	11244	470
						1957	2	7960	4.9	392	1	12390	470	1	11194	464
389666	5	7	5822	5.0	290	1955	1	4860	4.5	239	1	7250	265	1	6584	318
						1956	2	7700	5.0	361	1	6450	307			
						1957	2	6520	5.0	326				1	6311	301
						1958	1	5170	5.0	259	1	8460	407	1	6922	328
						1959	1	4020	5.3	211	1	7430	336	1	7695	350
391684	3	8	8463	5.2	446	1950	1	9280	5.6	516						
						1951	2	8950	5.7	508						
						1952	1	9460	5.2	496						
						1953	3	8110	5.3	430						
						1954	1	8000	5.2	313						
391983	5	10	7322	5.0	366	1950	1	6740	4.5	321	1	5680	286			
						1951	1	6520	5.0	324	1	6670	315			
						1952	2	6450	4.9	313	2	7040	349			
						1953	4	7045	4.9	345	4	6658	323			
						1955	1	9250	5.4	502	1	7890	403			
						1956	1	7450	5.6	414	1	11620	403			
393057	2	2	8105	5.0	396	1953	1	11156	4.7	526	1	11080	377	1	9265	452
						1955	1	5060	5.2	263	1	7100	342	1	7368	350
393396	1	1	7550	4.3	327	1955	1	7550	4.3	327	1	10490	494	1	8676	412
393598	1	5	7904	5.0	377	1955	1	7166	5.2	375	1	7920	403	1	7630	373
						1956	1	8640	5.2	446	1	8300	413	1	8197	402
						1957	1	7840	5.0	395	1	8220	416	1	7637	384
						1958	1	7540	4.9	368	1	10660	544	1	8153	405
						1959	1	8340	4.8	402	1	10940	531	1	9995	496
395047	21	45	7028	5.2	367	1953	4	7003	5.3	364	3	7260	347	4	8428	367
						1954	9	7842	5.1	399	9	7900	390	7	7621	369
						1955	13	6696	5.2	348	11	7844	378	9	7561	367
						1956	13	7589	5.3	400	13	7906	387	8	7631	366
						1957	6	7432	5.0	376	6	7430	361	6	7267	351
395766	2	3	7035	4.8	326	1951	2	7075	4.8	329						
						1952	1	5160	5.1	263						
397073	13	29	8737	4.7	409	1950	1	12070	4.6	549						
						1951	1	8380	4.9	415						
						1952	2	9490	4.6	440						
						1953	2	9240	4.4	408						
						1954	3	9203	4.5	420	1	5950	316			
						1955	3	9940	5.1	500	2	7905	421	2	7549	396
						1956	7	8793	4.7	407	6	9012	431	6	8853	439
						1957	6	9443	4.8	447	6	8985	455	5	9263	466
						1958	3	10450	4.5	472	3	10247	484	3	10021	471
						1959	1	6160	4.8	297	1	5460	265			
400003	24	25	6962	5.0	348	1956	1	6750	5.1	348	1	9010	451	1	9745	458
						1957	13	6475	5.0	319	11	8527	396	10	8570	408
						1958	9	7587	5.0	376	6	8565	405	8	8576	413
						1959	2	7640	5.7	435	2	7810	431	2	7816	410
400315	16	24	8129	4.9	399	1954	1	7190	5.0	357	1	6070	395			
						1955	3	8731	4.9	425	8	7948	378	7	7815	376
						1956	3	8103	4.7	397	6	8443	394	7	8209	394
						1957	4	6320	5.0	318	4	8590	411	3	7881	388
						1958	2	8565	4.9	426	2	9810	443	2	8867	410
						1959	1	8940	4.9	439	1	6570	329	1	7020	360
401055	1	2	6210	4.4	270	1956	1	5520	4.4	241	1	7460	295			
						1957	1	6900	4.5	298	1	6570	356			
401063	22	35	8039	5.0	401	1950	1	7870	5.4	426						
						1951	1	9410	4.7	440						
						1952	1	7550	5.7	432						
						1953	4	8568	5.1	436						
						1954	5	7884	4.9	386						
						1955	5	6832	5.2	354						
						1956	8	8393	4.8	401	7	8504	375	5	8204	380
						1957	6	7915	5.1	397	5	9022	425	5	8644	428
						1958	4	8245	5.4	443	3	8623	433	2	8262	409
403571	101	170	7420	4.8	352	1954	17	7351	4.8	355	17	8517	409	14	8593	417
						1955	45	7705	4.7	366	43	8622	415	41	8192	390
						1956	55	7730	4.9	376	53	8859	416	48	8892	425
						1957	40	7205	4.8	344	40	8104	386	38	8394	403
						1958	9	7500	4.8	360	9	8952	400	9	8623	397
						1959	4	7900	4.8	362	3	9033	417	4	7069	427

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY RECORD, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
GULRSLEY																
403587	12	19	7725	4.8	364	1954	3	7947	4.5	357	3	7070	341	3	7906	367
						1955	6	7438	4.7	347	8	8060	385	8	7201	353
						1956	6	6972	5.0	349	6	8055	395	5	8239	395
						1957	2	8195	4.5	359	2	11160	435	2	9581	392
407395	18	48	7394	5.1	373	1951	1	5670	4.8	274	1	3450	334			
						1953	2	8400	5.2	435	2	6665	362	1	13472	508
						1954	13	7125	5.2	368	12	7517	372	2	9358	382
						1955	11	8270	5.0	417	11	6942	351	11	7359	385
						1956	10	7782	5.0	390	10	7302	366	10	8012	405
						1957	10	7547	4.8	366	10	7747	365	10	7055	352
						1958	1	10070	4.8	460	1	8990	382	1	8033	367
407865	8	13	7073	4.7	331	1952	2	7040	4.9	340	2	9110	455			
						1953	3	7140	4.7	341	2	8590	423	1	9091	456
						1954	3	6460	4.5	269	3	7073	349	3	7379	355
						1955	3	7317	4.7	350	3	7797	349	3	7732	378
						1957	2	8550	4.6	392	1	10000	459			
409032	1	2	7880	5.1	402	1958	2	7880	5.1	402	1	7150	357	1	6660	355
409846	2	2	5915	5.0	294	1957	2	5915	5.0	294	2	7025	342	2	7461	365
410998	6	13	8440	4.9	410	1954	1	7700	4.4	359	1	6250	277	1	6758	353
						1955	4	8085	4.8	391	3	6603	319	3	7114	358
						1956	3	8497	5.1	429	2	6950	337	2	7418	351
						1957	2	8430	5.3	436	2	7045	434	1	6055	411
						1958	1	8550	5.4	464	1	7690	394	1	6687	455
						1959	1	10160	5.1	421	1	9230	462	1	9886	460
						1960	1	9660	5.1	491	1	7850	331	1	9723	461
411518	4	6	8567	4.8	407	1956	2	10415	4.5	465	2	7045	431	2	8927	422
						1957	2	7865	4.6	367	2	6500	335	2	6372	411
						1958	2	7450	4.6	348	1	8240	394	2	6720	419
417469	5	7	7718	4.9	376	1952	1	6610	5.3	353	1	3270	412			
						1953	1	8080	4.6	369	1	7090	367			
						1954	3	8283	4.8	394	3	6263	400	3	8415	415
						1955	1	5240	5.2	273	1	7770	379			
						1956	1	8130	5.0	408	1	7440	344	1	6066	400
417592	18	29	7174	4.7	337	1954	2	8570	5.0	431						
						1955	11	7575	4.9	367	5	7670	377	2	7364	356
						1956	5	7124	4.5	322	1	6950	363	2	8840	407
						1957	4	7020	4.6	324	3	10147	379	3	9981	367
						1958	4	6180	5.4	355	2	10575	454	2	10175	435
						1959	3	7620	4.2	327	2	8610	408	2	10274	458
421253	11	18	7609	4.8	368	1955	2	6090	5.1	309	2	8635	401	2	7913	358
						1956	6	7783	4.7	364	5	9906	446	6	9156	410
						1957	8	7331	5.1	373	8	8643	406	8	8973	426
						1958	2	6820	5.5	357	2	9575	457	2	9249	425
421719	13	27	7876	5.1	400	1954	3	8297	4.9	401	3	8567	405	3	8204	380
						1955	7	6657	5.4	358	7	8223	399	7	6651	410
						1956	7	7786	5.2	399	6	8858	439	5	8572	419
						1957	5	8330	5.0	417	5	8724	430	5	8674	434
						1958	4	9090	4.9	444	3	8223	390	3	6567	408
						1960	1	6280	5.1	323	1	8510	367			
421753	2	5	8014	4.6	369	1954	3	7910	4.8	382	3	6840	325	3	5864	281
						1955	2	7905	4.1	323	2	6765	317	2	7652	371
422558	3	4	10235	4.3	443	1957	2	9715	4.3	416	2	9980	419	1	5905	427
						1958	2	9860	4.4	430	2	9460	447	2	8939	426
423077	3	4	9040	4.9	423	1955	1	11630	3.5	411	1	11660	417	1	11750	407
						1956	3	9150	4.9	450	3	9567	431	3	9977	459
423418	8	8	8161	4.8	390	1957	4	7595	5.0	360	3	3713	432	3	9050	426
						1958	4	8726	4.6	400	3	9753	459	4	8813	422
424536	1	1	3460	5.3	184	1958	1	3460	5.3	184	1	9400	428	1	6382	396
425805	1	2	10375	4.8	497	1955	1	10970	4.8	522	1	8580	447	1	8404	368
						1956	1	9780	4.6	471	1	8540	510	1	9265	444
425863	3	8	9814	5.0	485	1953	2	9785	5.5	536						
						1954	3	9303	5.0	454						
						1955	1	10120	5.2	528						
						1956	1	10490	5.0	523						
						1957	1	9880	4.8	477						
426820	1	1	8560	4.0	341	1957	1	8560	4.0	341				1	7881	377
426885	1	1	10850	4.6	496	1956	1	10850	4.6	496	1	10750	469	1	9712	472
428158	1	1	8950	4.8	428	1958	1	8950	4.8	428	1	8950	410	1	8186	387
428625	10	16	7313	4.6	335	1952	1	6840	4.9	335						
						1953	3	8053	4.9	397						
						1954	1	6440	5.1	326						
						1955	2	10145	4.6	461	2	7960	376	2	9066	369
						1956	4	8818	4.3	374	4	7900	367	4	8385	404
						1957	4	5948	4.5	274	3	7700	374	4	7189	360
						1958	1	5360	4.6	245	1	7190	365	1	8415	444

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
GULFSEY																
430463	3	3	6763	5.1	345	1957	2	7310	5.2	373	2	11195	450	2	11816	478
						1958	1	5670	5.1	269	1	7690	357	1	6627	322
430950	7	13	7087	5.0	353	1954	1	5880	4.9	290	1	5730	290	1	6791	331
						1955	2	6865	5.2	353	2	7055	325	2	7276	348
						1956	5	7728	4.7	355	3	7853	384	1	7804	386
						1958	2	7325	4.7	341	2	7615	360	2	7663	371
						1959	3	7127	5.0	354	3	8143	398	3	8498	420
431323	1	4	8960	5.6	501	1954	1	9730	5.7	555	1	6860	305			
						1956	1	9710	5.8	567	1	9320	458			
						1957	1	6020	5.5	332	1	8560	429	1	9287	465
						1959	1	10380	5.3	548	1	8670	426	1	9167	455
435547	5	6	8935	4.6	406	1956	1	9640	4.3	412						
						1958	2	7315	4.8	349	2	8670	405	2	8306	388
						1959	3	9860	4.5	448	3	9690	449	3	9472	448
438181	1	2	9055	4.7	425	1956	1	9160	4.6	426	1	10990	479	1	9712	472
						1958	1	8950	4.7	424	1	9410	422	1	10115	465
439589	5	8	8306	4.9	404	1955	2	7480	5.1	361	2	8005	385	1	8894	422
						1956	2	9800	4.7	468	2	7795	382	2	8012	389
						1957	3	8420	5.0	417	3	8210	395	3	8451	417
						1958	1	10110	4.7	473	1	7970	392	1	8295	376
441166	1	1	8290	5.3	441	1960	1	8290	5.3	441	1	7010	397			
442503	8	9	9213	4.7	427	1957	3	8327	4.5	371	3	8033	405	3	9182	435
						1958	2	10325	4.7	483	2	8695	426	2	8469	406
						1959	3	9780	4.8	468	3	9507	463	3	9432	464
						1960	1	8670	4.3	368	1	8920	428			
444052	88	151	8446	4.7	393	1953	7	7544	4.7	362	9	8611	392	6	8738	379
						1954	25	8312	4.6	379	22	8413	396	23	8395	377
						1955	44	8335	4.7	384	45	8327	383	38	8480	388
						1956	29	9107	4.7	430	28	9047	407	24	9198	411
						1957	20	9289	4.6	425	18	9208	425	16	9123	420
						1958	14	10046	4.6	465	12	8804	414	12	8774	406
						1959	9	10739	4.5	481	7	9020	437	7	9293	448
						1960	1	7270	4.5	326	1	8930	403			
446687	1	3	9957	4.4	437	1953	1	12000	4.4	526						
						1954	1	11610	4.5	517	1	7740	371	1	6987	330
						1957	1	6260	4.3	269	1	7450	392	1	6605	325
447733	6	8	5993	5.2	309	1956	4	5465	5.1	274	4	7670	390	4	7892	355
						1957	3	7000	5.1	356	3	8217	396	3	8182	430
						1959	1	5910	5.5	323	1	9370	417	1	9450	416
449174	2	2	7920	4.8	373	1958	1	8630	4.4	377				1	9363	457
						1959	1	7210	5.1	368	1	10430	395	1	11500	408
451557	3	4	10787	4.2	453	1956	2	10590	4.1	426	2	9750	448	2	9265	444
						1957	2	10355	4.5	460	2	9220	414	2	9036	439
451597	2	3	7765	5.2	402	1958	1	7420	5.1	377	1	9170	417	1	8186	387
						1959	1	7640	5.2	398	1	8620	415			
						1960	1	8560	5.2	434	1	9020	405			
451828	2	3	7320	4.9	364	1953	1	8990	5.4	467	1	6430	321	1	8142	353
						1954	1	6120	4.4	267	1	7090	364	1	8611	433
						1955	1	8050	5.4	435	1	6400	365	1	6180	327
454353	4	10	7765	5.2	398	1954	1	8140	5.8	472	1	9200	461	1	10486	555
						1955	3	7877	5.3	417	3	7130	373	2	8175	462
						1956	3	8610	5.1	437	3	9670	483	1	8753	473
						1957	3	7727	5.0	380	3	9300	431	3	9807	470
454429	1	1	8330	5.1	427	1956	1	8330	5.1	427	1	8110	401	1	7881	413
455478	2	10	7220	4.9	352	1954	3	7443	4.9	363	3	7497	367	3	8557	421
						1955	2	6590	4.7	311	2	7425	352			
						1956	2	7655	4.9	372	2	8410	393	2	8066	400
						1957	2	7170	4.9	353	2	8635	413	2	8142	402
						1958	1	7040	5.1	356	1	9360	481	1	8502	414
457384	1	2	7105	3.8	268	1958	1	6690	3.8	256	1	10100	383	1	8698	353
						1959	1	7520	3.7	279	1	9780	392	1	9003	368
458101	7	8	7461	4.6	341	1957	3	7610	4.2	313	3	9673	387	3	9985	399
						1958	3	8093	4.6	364	3	9227	413	3	9742	416
						1959	2	7865	4.9	377	1	8620	401	1	8208	404
458451	1	1	9400	4.0	379	1958	1	9400	4.0	379	1	10960	440	1	10464	423
458485	3	4	9113	4.8	433	1955	2	9835	5.0	440						
						1956	2	9870	4.5	448						
450610	19	25	7363	4.9	359	1955	7	7106	5.2	366	5	7548	374	5	8792	430
						1956	11	7485	4.9	363	8	8866	408	8	9490	437
						1957	6	7982	4.0	370	5	8476	390	6	9167	428

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	AV. RECORDS NO.	YEARLY HERD MILK LB.	HERD AVERAGE FAT LB.	
						GUERNSEY											
						1956	1	7520	4.2	317	1	8830	392		1	9902	421
459489	1	1	9550	5.0	482	1954	1	9550	5.0	482	1	8460	420		1	9341	451
463145	1	1	7750	4.2	323	1956	1	7750	4.2	323							
464132	1	1	8520	4.4	375	1954	1	8520	4.4	375	1	9570	479		1	8337	407
466643	7	9	8186	4.8	386	1955	1	8366	4.9	410	1	8776	443		1	8121	398
						1956	3	8965	4.6	409	3	8347	384		2	7794	372
						1957	5	7604	4.9	369	5	8270	374		5	8964	411
466808	4	9	7171	4.9	351	1954	2	7310	5.2	381	2	9620	387		1	8066	363
						1955	2	7475	4.6	345	2	7765	357		2	8037	375
						1956	3	6313	4.7	301	3	8257	386		3	8118	384
						1957	2	7615	4.2	363	2	7665	392		2	8404	416
468506	35	69	7577	4.9	372	1954	13	7672	4.9	374	13	7647	370		12	7531	373
						1955	24	7737	4.9	387	23	8658	381		22	8020	380
						1956	10	8602	5.0	429	10	7719	393		10	8379	401
						1957	6	9025	4.7	416	6	8667	410		6	8717	413
						1958	11	7889	4.9	386	8	8909	419		3	8513	366
						1959	5	7266	5.1	365	3	7436	371		5	8847	423
469206	13	23	7082	4.9	347	1953	7	7780	4.5	357	1	8710	397		1	8284	367
						1954	6	7993	4.9	390	6	8557	408		6	8204	360
						1955	7	7203	4.9	355	7	8163	402		7	8441	377
						1956	3	6247	4.6	300	3	8250	393		3	8157	364
						1957	4	5935	5.3	307	4	8965	393		4	8944	376
						1958	1	3860	5.1	196	1	9640	373		1	8971	347
472739	1	1	7580	5.0	380	1956	1	7580	5.0	380	1	8100	411		1	7488	364
477995	2	2	8100	4.6	371	1958	1	8020	4.4	356							
						1960	1	8180	4.7	366	1	7740	364				
481953	1	1	7500	4.8	361	1959	1	7500	4.2	361	1	7180	325		1	7695	350
483329	2	2	8530	5.2	437	1957	1	7870	5.7	449	1	7690	447				
						1959	1	9190	4.6	424	1	8520	409		1	9298	438
488385	5	9	9163	4.9	442	1956	3	10553	4.5	480							
						1957	2	8280	4.7	369							
						1958	4	8920	5.1	447	1	9370	433				
490792	8	8	8243	4.9	399	1956	1	7880	4.6	360	1	10730	488		1	9123	438
						1957	6	8352	4.9	403	6	10835	464		5	9350	422
						1958	1	7950	5.0	396	1	12030	472		1	10791	447
492015	1	1	6510	4.8	314	1957	1	6510	4.2	314	1	8530	407				
493394	3	4	8975	4.4	396	1956	2	9125	4.6	418	1	7750	344		1	9592	408
						1957	2	7350	4.3	311	2	10440	429		2	8791	391
493639	5	6	7405	4.4	325	1956	3	8053	4.2	341	3	8070	333		3	8607	413
						1957	3	6920	4.6	318	3	8463	366		2	8557	417
498886	4	4	8168	4.9	402	1956	4	8168	4.9	402							
501850	1	1	8540	5.1	439	1959	1	8540	5.1	439							
504967	2	2	8955	4.5	401	1957	1	7710	4.7	361							
						1959	1	10200	4.3	440	1	10070	502		1	9745	462
509325	1	1	9410	5.0	471	1959	1	9410	5.0	471	1	10070	561		1	9603	453
514132	1	1	10460	4.9	509	1960	1	10460	4.9	509	1	8250	410				



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
621423	25	93	11536	3.4	396	1947	18	10703	3.4	368	5	11313	376				
						1948	17	12780	3.5	442	2	11575	412				
						1949	15	11840	3.4	403	4	12595	476				
						1950	12	12603	3.5	450	5	12716	462				
						1951	6	11445	3.4	395	4	12900	478				
						1952	9	12522	3.4	423	6	12013	447				
						1953	6	12475	3.4	423	5	11760	430	4	12137	454	
						1954	3	12257	3.6	436	3	11380	418	3	12430	465	
						1955	3	13703	3.7	500	3	10907	381	2	12023	430	
						1956	2	13220	3.5	450	2	13230	474	2	13380	482	
						1957	1	9910	4.1	406	1	11040	400	1	10584	387	
						1959	1	12030	3.0	358	1	13640	485	1	10867	399	
667753	3	12	12813	3.3	429	1947	0	11825	3.4	397							
						1948	2	14060	3.6	500							
						1950	1	17570	3.5	613							
						1951	1	13370	3.5	461							
						1952	1	14580	3.4	502							
						1953	1	15500	4.0	617							
667791	18	43	13060	3.6	465	1947	11	11342	3.7	415							
						1948	10	14021	3.6	508							
						1949	10	14125	3.6	506							
						1950	6	16452	3.5	583	1	16060	568				
						1951	5	13548	3.4	471	1	10510	319				
						1955	1	9780	2.9	287							
675043	1	2	10085	3.7	373	1947	1	8110	3.7	298							
						1948	1	12066	3.7	447							
682048	12	29	12268	3.5	426	1951	7	11920	3.4	404	5	11818	387				
						1952	6	14053	3.7	513	5	12594	465				
						1953	9	11531	3.6	413	8	11029	397	4	11369	398	
						1954	6	11725	3.4	392	6	10292	377	6	10253	380	
						1955	1	11120	3.6	404	1	8370	326	1	9494	356	
682072	1	1	12160	4.5	548	1949	1	12160	4.5	548							
693386	3	5	11775	3.5	413	1947	3	11507	3.5	403							
						1948	2	12555	3.7	467							
697637	3	8	14596	3.1	453	1947	4	14100	3.0	422							
						1948	2	16810	3.3	553							
						1949	1	9770	2.9	286							
						1950	1	11520	2.7	306							
701065	13	37	13465	3.2	430	1947	13	13986	3.2	444	1	9520	352				
						1948	6	15305	3.3	501							
						1949	9	12359	3.3	401	2	11975	430				
						1950	4	12438	3.3	407	1	11660	434				
						1952	1	13180	3.3	439	1	11480	393				
						1954	2	12370	3.3	400	2	11700	397	2	11536	400	
						1955	1	14360	3.4	492	1	11160	397	1	10911	400	
						1957	1	12570	3.5	458	1	10710	403	1	10192	382	
703951	1	1	6450	3.1	202	1951	1	6450	3.1	202							
708301	1	5	15062	3.6	540	1947	1	12936	3.7	480							
						1948	1	15320	3.4	527							
						1949	1	15240	3.5	531							
						1950	1	16210	3.6	590							
						1951	1	15610	3.7	571							
708526	1	3	10580	3.7	394	1947	2	9940	3.8	376							
						1948	1	11860	3.6	429							
711654	16	38	11459	3.5	401	1947	13	11374	3.4	390							
						1948	8	11706	3.5	409	1	11040	377				
						1949	7	12870	3.7	476							
						1950	2	12635	3.5	434	1	12000	455				
						1951	1	12650	3.7	473							
						1952	1	13690	3.1	422	1	11430	395				
						1954	1	14540	3.4	492	1	11080	393				
														1	11794	413	
716446	16	58	11633	3.4	393	1947	9	10809	3.2	351	2	12035	423				
						1948	8	10935	3.4	366							
						1949	7	10885	3.4	367	2	12190	408				
						1950	9	12261	3.4	418	5	13116	447				
						1951	5	9925	3.6	355	3	10937	387				
						1952	7	12264	3.5	431	0	12072	421				
						1953	6	13226	3.5	459	6	11363	397	5	12158	435	
						1954	4	13658	3.6	484	4	12580	445	4	12219	432	
						1955	1	11566	3.1	354	1	11690	400	1	12535	448	
						1956	2	11900	3.5	419	2	12635	440	2	12214	433	
720356	2	13	14558	3.3	476	1948	1	12990	3.6	470							
						1949	2	14685	3.5	507	2	15015	505				
						1950	2	15325	3.4	514	2	13550	418				
						1951	2	15495	3.3	501	2	12860	414				

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER-AVERAGE BY SIRE						RECORD-AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
724816	169	466	11482	3.6	411	1952	2	15615	3.2	488	2	13940	445									
						1953	2	13630	3.2	435		2	12460	421	2	13374	443					
						1954	2	13220	3.1	412		2	13430	456	2	13069	453					
						1947	97	11741	3.6	418	1	11190	403									
						1948	49	12314	3.6	436	3	11557	397									
						1949	53	11915	3.6	432	9	12739	446									
						1950	66	11963	3.6	435	18	12202	441									
						1951	53	11006	3.6	393	25	11948	426									
						1952	52	11134	3.6	397	31	12183	444									
						1953	35	11433	3.6	410	31	11913	428	26	11994	432						
						1954	27	11256	3.6	400	25	11544	410	23	11914	430						
						1955	21	11985	3.6	434	21	11440	423	21	11683	420						
						1956	7	10836	3.5	376	7	12309	459	7	11291	418						
1957	3	12503	3.5	441	3	11013	413	3	11358	417												
1958	1	13630	3.4	460	1	12410	409	1	11968	409												
725177	1	6	12448	3.7	429	1947	1	13630	3.4	467												
						1949	1	14410	3.5	473	1	18040	613									
						1950	1	14050	3.5	460												
						1951	1	13920	3.4	467	1	13000	469									
						1952	1	13420	3.5	441	1	12350	455									
						1953	1	4660	5.3	245	1	7450	418									
725852	3	10	12332	3.4	416	1947	3	12083	3.5	400												
						1948	2	11695	3.7	434												
						1949	1	12580	3.4	432												
						1951	2	11735	3.5	387	2	13070	424									
						1952	1	13940	3.6	497	1	11370	398									
						1953	1	11210	3.6	402	1	12230	453	1	11990	409						
728970	7	21	11175	3.5	383	1947	7	10283	3.5	358												
						1948	2	10350	3.5	347												
						1949	3	11987	3.5	425												
						1950	4	11333	3.6	411												
						1951	4	13543	3.4	459												
						1952	1	12430	3.3	409												
730541	1	3	10077	3.6	364	1949	1	12000	3.6	430												
						1950	1	9120	3.5	323												
						1951	1	9110	3.7	340												
731048	35	122	11413	3.4	391	1947	6	11026	3.4	371												
						1948	10	11062	3.5	360												
						1949	12	12019	3.4	413	3	12470	434									
						1950	17	11934	3.5	418	12	12595	438									
						1951	20	10937	3.5	380	12	11557	414									
						1952	18	11584	3.5	409	16	11092	424									
						1953	18	11091	3.5	386	17	11579	412	17	11505	404						
						1954	11	10595	3.3	354	11	11418	406	11	11433	406						
						1955	5	12956	3.4	443	5	12072	413	5	11456	400						
						1956	3	10413	3.5	369	3	11223	401	3	10948	390						
						1957	2	12035	3.1	300	2	13050	455	1	9875	362						
						731051	1	4	12893	3.2	409	1949	1	12640	3.1	398						
												1950	1	13610	3.5	449	1	11350	428			
1951	1	14830	3.1	401	1							10100	383									
1952	1	10490	3.1	329	1							12400	444									
733131	11	44	11509	3.4	385	1947	1	11630	3.1	355	1	11780	357									
						1948	1	14120	3.5	488												
						1949	3	12143	3.1	374	1	11010	434									
						1950	5	11190	3.7	408	4	11783	411									
						1951	7	11184	3.4	380	6	11000	388									
						1952	8	11125	3.3	361	7	11473	407									
						1953	7	11963	3.3	401	6	11905	432									
						1954	0	11870	3.4	398	8	11011	417	4	12276	436						
						1955	2	11470	3.4	390	2	11365	407	8	10960	404						
						1956	2	10530	3.3	347	2	11400	431	2	11249	423						
734362	2	2	11205	3.7	410	1950	1	10770	3.3	352												
						1953	1	11640	4.0	467	1	13670	468	1	13614	483						
735493	13	34	11161	3.5	393	1947	17	11076	3.5	381												
						1948	3	13313	3.4	453												
						1949	3	12223	3.5	424	1	9600	319									
						1950	2	10330	3.6	372	1	8760	324									
						1951	2	12250	3.8	463	1	10750	352									
						1952	1	12440	3.5	441	1	10200	336									
						1953	2	14730	3.7	548	2	13300	510	1	10955	376						
						1954	1	9240	3.7	345	1	9930	334	1	11957	417						
						1955	1	11550	3.6	411	1	10670	378	1	10104	349						
						1956	1	8920	3.6	319	1	10050	360	1	11380	395						
						1957	1	8900	3.6	317	1	9650	346	1	11194	395						
						739007	1	1	9020	3.6	320	1950	1	9020	3.6	326						
						739097	391	1076	11008	3.6	397	1947	3	12397	3.6	444						
1948	14	11106	3.6	396	2							13795	507									
1949	29	11356	3.8	425	7							11556	436									
1950	56	11567	3.6	422	28							12340	442									
1951	86	10904	3.7	400	60							11083	427									
1952	150	11318	3.6	412	125							11800	427									
1953	227	10985	3.7	401	213							11467	412	150	11399	409						
1954	183	11024	3.6	394	182							11540	408	149	11197	407						
1955	151	12013	3.6	424	150							11735	425	131	11600	412						
1956	94	11573	3.5	408	93							12054	430	65	12097	431						

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTAM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1957	50	11358	3.5	401	49	11707	415	46	11992	434
						1958	21	12989	3.5	454	17	12570	437	15	12079	428
						1959	12	12664	3.5	444	11	11770	421	12	11967	431
739960	33	67	10412	3.6	366	1947	53	10582	3.6	370						
						1948	10	11468	3.5	400						
						1949	10	10510	3.5	362						
						1950	7	11074	3.5	389						
						1951	4	12033	3.6	431	1	10350	376			
						1952	2	11860	3.4	406	1	12120	454			
						1953	1	11690	3.4	403	1	10950	408	1	10987	398
741318	1	1	10610	3.5	367	1950	1	10610	3.5	367						
741679	22	59	12375	3.4	420	1947	16	11638	3.5	401						
						1948	10	12162	3.2	387						
						1949	7	14017	3.5	470	2	11520	414			
						1950	6	13590	3.5	470	2	15250	554			
						1951	4	13303	3.6	479	2	12515	450			
						1952	3	12083	3.5	428	2	12730	453			
						1953	3	12253	3.5	424	3	11167	404	2	11977	434
						1954	3	9915	3.5	348	3	10520	379	3	10115	371
						1955	3	12270	3.5	429	3	11037	432	3	11663	421
						1956	2	12165	3.4	414	2	11610	425	2	10977	405
						1957	2	13695	3.1	424	2	12275	432	1	12382	458
742590	60	177	12061	3.6	431	1947	42	12037	3.5	422	2	11040	391			
						1948	22	12430	3.4	427	3	13900	401			
						1949	26	12913	3.6	472	6	12562	441			
						1950	24	12310	3.6	445	8	11759	437			
						1951	21	11458	3.7	423	8	11498	409			
						1952	15	13003	3.7	478	9	11653	424			
						1953	11	12709	3.6	462	10	11858	427	6	10906	407
						1954	9	11860	3.5	418	8	11620	413	7	11594	417
						1955	6	12340	3.6	443	6	11913	421	6	10713	378
						1956	1	13630	3.9	520	1	12550	443	1	12622	452
742705	1	2	8495	3.8	318	1947	2	8495	3.8	318						
743670	39	100	11222	3.5	394	1947	6	10318	3.3	336						
						1948	17	10886	3.6	363	1	6210	298			
						1949	15	11504	3.4	394	1	8900	319			
						1950	21	12604	3.5	437	3	11837	449			
						1951	14	12879	3.6	458	5	12022	439			
						1952	13	11632	3.6	421	7	11620	417			
						1953	6	9700	3.6	348	7	11433	405	4	10925	397
						1954	4	9513	3.0	343	4	11648	392	3	12659	452
						1955	2	14200	3.5	506	2	11555	405	2	12148	432
745234	22	78	11344	3.4	380	1947	19	11103	3.5	366	1	11570	369			
						1948	13	11391	3.4	303	3	13590	459			
						1949	10	12973	3.4	434	5	13852	465			
						1950	7	11101	3.5	383	5	12162	442			
						1951	5	10920	3.4	371	4	11290	400			
						1952	6	12602	3.4	427	4	12250	430			
						1953	0	12643	3.2	410	5	11542	403	3	11434	396
						1954	4	13053	3.4	433	3	10610	371	3	12444	433
						1955	4	13733	3.3	449	3	11420	399	3	11271	391
						1956	3	14930	3.3	495	2	11625	399	2	13609	479
						1957	1	15690	3.2	502	1	13460	458	1	12012	416
746230	121	339	11004	3.7	401	1947	5	12416	3.6	441						
						1948	25	11423	3.7	419	2	11565	390			
						1949	44	11550	3.6	410	4	13743	488			
						1950	55	10955	3.6	397	10	12748	457			
						1951	61	11159	3.7	411	20	12537	471			
						1952	55	11095	3.7	408	25	11767	436			
						1953	35	11190	3.7	416	29	11777	421	22	11711	424
						1954	22	11500	3.7	420	20	11634	416	16	11974	431
						1955	20	12108	3.7	452	16	11566	421	17	11347	413
						1956	11	12127	3.5	425	11	11475	414	11	11410	410
						1957	5	12804	3.6	460	5	11910	444	5	12369	451
						1959	1	14570	3.9	565	1	13770	475	1	14791	520
749001	5	14	11332	3.5	395	1949	1	12950	3.6	471	1	11070	400			
						1950	2	10220	3.5	357	1	9590	363			
						1951	1	13640	3.9	340	1	9310	340			
						1952	2	10840	3.7	398	2	12270	423			
						1953	3	11637	3.7	428	3	11970	435	3	11695	418
						1954	3	10997	3.5	364	2	10665	380	2	10296	379
						1955	2	10580	3.2	339	1	11710	426	1	11641	415
749572	7	36	12346	3.6	451	1949	2	12965	3.6	466	1	14470	472			
						1950	5	12084	3.5	426	5	12574	432			
						1951	5	11210	3.5	401	5	11632	392			
						1952	5	13762	3.7	502	5	12484	444			
						1953	4	11933	3.7	453	4	10803	400	2	11849	417
						1954	6	13067	3.5	462	6	10662	399	6	11590	420
						1955	6	13362	3.6	466	6	11960	425	6	11463	423
						1956	3	10540	3.6	378	3	10967	395	3	11180	416

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
750270	73	201	11144	3.7	407	1951	10	10544	3.7	384	4	11538	394			
						1952	28	11208	3.6	406	20	11536	416			
						1953	34	11499	3.7	428	26	11921	431	17	11291	402
						1954	43	10989	3.7	399	38	11461	416	36	11570	414
						1955	28	11554	3.7	424	23	12070	432	18	11664	418
						1956	27	11790	3.6	421	25	11754	417	15	12020	435
						1957	17	10821	3.6	387	15	11276	395	13	11288	398
						1958	8	12321	3.6	445	8	12183	431	8	11937	427
						1959	5	10628	3.6	398	4	13503	484	5	11029	500
						1960	1	2360	4.9	115						
752123	1	1	17390	3.2	564	1955	1	17390	3.2	564	1	10230	380	1	10976	402
752584	26	81	12381	3.4	412	1950	5	13484	3.0	406	4	10943	412			
						1951	8	10555	3.5	363	8	12104	426			
						1952	18	12143	3.3	402	17	12262	436			
						1953	18	11824	3.3	393	17	11765	425	13	11113	403
						1954	15	12424	3.4	419	15	12183	443	13	12235	439
						1955	7	15163	3.4	506	7	12673	468	7	13362	475
						1956	6	14050	3.5	490	6	12642	440	6	12306	446
						1957	2	17275	3.3	538						
						1958	1	14690	3.5	513				1	14268	506
						1959	1	13750	3.1	420	1	15580	576	1	13919	498
752797	1	3	12007	3.6	433	1947	2	12545	3.6	452						
						1948	1	10930	3.6	395						
754118	1	2	13215	3.7	486	1952	2	13215	3.7	486						
754297	2	3	9665	3.2	307	1952	1	12270	3.1	382	1	10790	482			
						1953	2	9210	3.3	304	2	10400	379	1	10638	376
754586	9	14	11653	3.9	450	1949	3	9820	4.1	404						
						1950	4	10148	4.2	416						
						1952	2	14570	3.8	549	2	11305	374			
						1953	2	13515	3.9	521	1	13080	448	1	12361	415
						1954	2	10940	3.5	378	1	10240	385	1	9330	352
						1955	1	14130	4.0	572	1	10780	399	1	10595	389
755603	6	23	12273	3.5	424	1947	2	9845	3.5	340	2	13345	449			
						1948	1	14300	3.4	482	1	15460	522			
						1949	4	13510	3.5	468	2	13705	489			
						1950	3	13150	3.4	453	2	12805	470			
						1951	2	13590	3.6	480	2	12715	444			
						1952	2	13995	3.4	480	2	11280	391			
						1953	2	15865	3.6	490	2	12655	418	1	12143	452
						1954	3	11133	3.4	382	3	11313	401	2	10846	395
						1955	4	12208	3.5	421	4	11805	413	4	11674	407
757596	298	796	11584	3.6	417	1949	5	12826	3.4	438						
						1950	17	11951	3.6	435	7	11759	406			
						1951	40	11175	3.7	417	22	11524	425			
						1952	116	11961	3.6	436	89	11694	429			
						1953	181	11611	3.6	428	169	12057	432	113	11881	425
						1954	164	11669	3.6	418	158	11877	424	137	11620	420
						1955	119	11805	3.6	424	118	12647	431	104	11659	417
						1956	78	11226	3.6	404	78	12212	437	69	12178	438
						1957	47	11340	3.6	409	45	11988	429	42	12073	435
						1958	20	12829	3.6	452	18	13262	478	17	12320	443
						1959	7	12499	3.7	457	7	12127	434	7	12594	451
						1960	2	15410	3.4	524	2	14620	496	1	13483	470
757597	206	610	12012	3.6	431	1949	7	12791	3.7	469	3	11623	424			
						1950	29	12910	3.7	473	17	12678	457			
						1951	62	11686	3.7	429	42	11497	409			
						1952	105	12055	3.6	438	84	12155	442			
						1953	118	12090	3.6	436	113	11620	419	88	11440	412
						1954	101	11653	3.6	417	97	11625	418	84	11567	419
						1955	70	12247	3.6	439	66	12306	442	59	11962	429
						1956	48	11985	3.6	426	46	12456	445	45	12421	448
						1957	34	11667	3.6	419	33	12358	442	29	12502	447
						1958	24	13682	3.5	474	21	13068	464	18	12658	459
						1959	11	13837	3.5	481	10	13080	475	9	12387	497
						1960	1	16920	3.2	542	1	12590	462			
758723	8	16	10419	3.5	368	1947	7	11031	3.5	381						
						1948	4	10903	3.7	411						
						1949	3	10787	3.4	375						
						1950	1	8990	3.4	305						
						1951	1	10640	3.9	420						
759624	1	1	11220	3.6	401	1959	1	11220	3.6	401	1	12630	452	1	12415	447
759625	2	6	11150	3.7	411	1949	1	12540	3.3	418						
						1950	2	10350	3.9	401						
						1952	1	13190	3.7	462	1	14150	537			
						1953	2	10135	3.8	361	2	12715	454	2	11183	424
762308	9	31	11667	3.7	426	1947	15	10829	3.7	399						
						1948	4	13495	3.7	493						
						1949	1	12430	3.7	460						
						1950	5	12604	3.7	466						
						1951	2	11000	3.7	402						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1952	5	13270	3.6	474						
						1953	1	12050	3.4	411						
762771	8	30	11476	3.4	397	1947	3	12273	3.3	406						
						1948	3	14060	3.4	486						
						1949	7	11136	3.5	394	2	11735	408			
						1950	3	10047	3.7	376	2	9810	359			
						1951	3	9837	3.6	350	2	10615	390			
						1952	2	10955	3.8	411	2	10360	376			
						1953	2	11810	3.6	428	2	11070	387	1	11652	448
						1954	2	14660	3.6	535	2	11545	413	2	11522	418
						1955	1	10700	3.2	341	1	11470	393	1	12055	420
						1956	2	11410	3.7	420	2	11900	434	2	11854	431
						1957	2	10395	3.6	375	2	10730	370	2	11380	407
764393	46	113	9909	3.5	348	1947	13	10138	3.5	345						
						1948	12	12292	3.4	418						
						1949	25	10040	3.5	348						
						1950	21	10946	3.5	379	7	12244	422			
						1951	11	10511	3.5	363	5	10722	374			
						1952	11	11127	3.4	378	5	11802	420			
						1953	9	10462	3.5	359	7	10231	367	9	10557	377
						1954	6	10807	3.6	382	6	11592	414	6	11180	412
						1955	4	10136	3.6	365	4	9473	348	4	10153	378
						1956	1	9460	4.0	375	1	11070	402	1	9407	348
765777	24	78	11437	3.5	394	1947	34	10803	3.4	364						
						1948	13	11526	3.4	390	1	15500	517			
						1949	9	10442	3.5	345						
						1950	8	12160	3.6	440	1	12570	472			
						1951	6	12357	3.6	447	2	13275	462			
						1952	2	13355	3.8	510	1	12040	436			
						1953	2	15740	3.5	554	2	11640	426	2	12214	447
						1954	2	16435	3.5	567	2	13490	473	2	12634	460
						1955	1	15920	3.8	610	1	14540	513	1	14977	536
						1956	1	12580	3.2	474	1	13630	481			
767156	8	32	11979	3.7	451	1947	1	10050	3.8	384						
						1948	1	13550	3.7	506						
						1949	2	15065	3.6	537	1	14220	502			
						1950	3	13877	3.8	528	3	12660	515			
						1951	6	12820	3.7	485	5	11722	464			
						1952	7	11504	3.8	434	7	10393	411			
						1953	7	11907	3.8	451	7	11497	432	7	11394	423
						1954	3	11613	3.7	440	3	11023	405	3	11278	415
						1956	2	9615	3.9	370	1	11420	426	2	11849	431
769599	1	1	12800	3.8	488	1947	1	12800	3.8	488						
771491	1	2	9270	3.7	343	1954	1	9700	3.8	366	1	12870	476	1	12055	438
						1955	1	8840	3.6	320	1	11500	413	1	12001	451
771582	40	101	11334	3.8	426	1950	2	12235	4.2	515	1	13450	478			
						1951	12	11830	3.8	451	6	11659	414			
						1952	19	11605	3.8	440	17	12108	426			
						1953	22	11460	3.9	445	22	11720	420	12	11338	407
						1954	17	12082	3.8	453	17	11324	398	14	11756	418
						1955	15	12051	3.7	447	14	12299	447	12	12095	431
						1956	9	11543	3.5	405	9	12363	425	6	11970	414
						1957	5	10480	3.5	367	5	10624	380	5	11190	397
775264	2	2	8405	4.0	336	1948	2	8405	4.0	336						
775609	3	14	12675	3.3	419	1947	4	14535	3.2	464						
						1948	2	14675	3.3	473						
						1949	2	14085	3.2	449						
						1950	2	12255	3.4	414	1	13520	438			
						1951	1	12790	3.4	434	1	10690	354			
						1953	1	14030	3.3	467	1	10850	373	1	9875	339
						1954	1	13080	3.3	429	1	9970	337	1	9520	330
						1955	1	10970	3.4	378	1	11720	397	1	11609	400
776306	75	237	11785	3.5	413	1948	1	6180	3.6	222						
						1949	7	12329	3.5	433	1	15200	524			
						1950	26	12572	3.5	441	16	11870	425			
						1951	46	11626	3.5	412	29	11668	421			
						1952	47	11781	3.5	417	34	11490	423			
						1953	40	11850	3.5	419	33	11415	411	25	11223	406
						1954	28	11081	3.5	392	23	11269	406	24	11427	414
						1955	22	10812	3.4	369	19	11571	408	20	11254	402
						1956	7	10846	3.4	370	7	12364	450	6	12243	445
						1957	6	11753	3.6	420	6	11505	422	5	11685	424
						1958	6	11010	3.5	409	6	12972	450	6	11400	407
						1959	1	12500	3.4	423	1	12050	441	1	14301	528
777842	1	1	12330	3.6	450	1953	1	12330	3.6	450	1	11360	410	1	14584	545
778021	12	40	12298	3.4	418	1947	1	13520	3.4	463						
						1948	3	12647	3.4	435						
						1949	3	14217	3.4	483	1	18260	616			
						1950	2	13475	3.6	463	1	10530	359			
						1951	5	12486	3.5	433	4	10765	364			
						1952	7	14229	3.5	496	6	12495	456			
						1953	5	13647	3.5	448	5	12790	478	3	11830	452
						1954	5	13340	3.4	449	5	12576	448	5	13017	468
						1955	4	13320	3.3	443	4	12073	477	4	12031	439
						1956	2	10570	3.5	362	2	10515	369	2	11380	375



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BULL, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
779567	7	24	12952	3.8	486	1957	2	10640	3.3	351	2	10305	390	2	11194	395						
						1958	1	12520	3.2	402												
						1951	4	13293	3.7	487	3	8917	343									
						1952	6	12602	3.8	480	4	10775	392									
						1953	5	12422	3.7	466	5	10606	400	3	10315	367						
						1954	4	11478	3.6	417	4	9948	357	4	9584	359						
						1955	2	11895	3.7	435	2	9705	347	2	11085	383						
						1956	1	13180	3.8	505	1	10950	391	1	9657	347						
1957	2	14790	3.7	541	2	13405	489	2	13745	508												
780586	1	1	10290	3.5	358	1955	1	10290	3.5	358	1	7390	267	1	7183	264						
780863	1	1	8180	3.5	286	1948	1	8180	3.5	286												
783328	20	55	11993	3.5	417	1951	2	9630	3.8	373	2	11450	412									
						1952	12	12525	3.6	446	7	11256	417									
						1953	8	12658	3.4	435	5	11594	416	5	10466	367						
						1954	11	12074	3.5	421	9	11604	434	9	10957	395						
						1955	6	14455	3.4	497	5	12970	461	5	12384	463						
						1956	7	12104	3.3	401	6	11908	414	6	12273	436						
						1957	5	13782	3.3	454	3	12703	451	3	12713	454						
						1958	3	12570	3.1	331	1	12990	453	1	16252	548						
						1959	1	13270	3.5	467	1	11550	406	1	12797	451						
						784746	1	1	9140	3.2	296	1952	1	9140	3.2	296						
784882	13	36	10157	3.6	368	1948	1	10410	3.7	381												
						1949	1	11810	3.8	446												
						1950	5	9960	3.7	371	3	12470	476									
						1951	6	10012	3.7	366	3	11870	454									
						1952	8	11535	3.6	406	5	12614	449									
						1953	5	13402	3.8	497	5	12606	441	3	12568	457						
						1954	2	16570	3.7	599	2	12275	412	1	9799	355						
						1955	1	6270	4.1	254				1	11728	456						
						1956	3	12233	3.6	469	3	11490	407	1	11609	454						
						1957	1	11120	3.3	370	1	9690	317									
						1959	2	12810	3.7	466	2	11735	421	2	11669	416						
						1960	1	14690	4.1	604	1	12230	454									
						786421	13	29	11902	3.5	419	1950	4	12505	3.6	454						
												1951	3	12330	3.6	447	3	11533	454			
1952	7	11604	3.6	421	4							11748	415									
1953	6	11393	3.6	410	6							11417	397	4	11622	428						
1954	3	12167	3.6	436	3							11897	438	3	11815	429						
1955	3	12875	3.5	443	3							11567	437	3	11689	456						
1956	2	11365	3.5	400	2							11770	439	1	12350	458						
1957	1	12610	3.2	403	1							11120	410	1	11532	431						
786840	8	29	13350	3.6	483							1947	3	11287	3.5	398	1	13210	448			
												1948	4	14063	3.8	523	1	14130	504			
						1949	5	12560	3.9	471												
						1950	5	12012	3.5	419	1	14530	492									
						1951	3	13160	3.4	451	1	12790	445									
						1952	4	15383	3.5	539	1	10710	369									
						1953	1	9470	3.3	316	1	10730	350	1	11510	412						
						1954	5	14882	3.5	526	2	10975	399	2	11233	390						
						1957	1	15110	3.9	585	1	13200	506	1	12197	441						
786905	2	2	10030	3.4	335	1950	1	11920	3.3	392												
						1955	1	8140	3.4	278	1	10900	388	1	11423	422						
787489	4	13	10053	3.6	359	1951	2	12610	3.2	396	2	14465	484									
						1952	4	9875	3.7	364	4	11545	419									
						1953	4	9765	3.6	348	4	10643	364	4	10846	383						
						1954	3	9593	3.8	353	3	10690	377	3	10638	379						
787503	2	2	13850	3.2	443	1947	2	13850	3.2	443												
790036	2	3	7760	3.3	255	1951	1	5290	3.0	161												
						1952	1	8830	3.5	308												
						1953	1	11630	3.4	390	1	10520	377									
790366	2	4	8380	3.5	294	1948	1	12900	3.7	481												
						1949	1	11470	3.4	395												
						1950	1	5530	3.6	196												
						1951	1	9320	3.2	300												
791357	24	87	12252	3.6	436	1948	2	13510	3.4	462	1	10210	364									
						1949	4	13405	3.7	493	2	13495	480									
						1950	6	12222	3.5	420	6	12132	450									
						1951	12	11826	3.7	432	10	11438	406									
						1952	13	12262	3.6	442	12	12646	441									
						1953	18	11169	3.5	394	16	11934	427	12	10960	397						
						1954	11	12319	3.6	442	11	11740	456	8	10866	369						
						1955	7	13631	3.4	461	7	11496	413	7	11157	406						
						1956	7	13967	3.5	491	7	11961	425	7	11675	426						
						1957	3	10957	3.5	379	2	11075	398	2	11260	406						
						1958	3	16593	3.5	579	2	14155	532	2	12944	470						
						1959	1	15470	3.8	583	1	14150	559	1	12677	477						
						791874	104	235	12358	3.5	429	1953	22	12568	3.5	441	22	12096	459	11	12064	443
												1954	49	12005	3.5	414	47	11315	424	38	11791	425
												1955	72	12716	3.5	445	67	11877	423	55	11645	416
												1956	45	12623	3.5	441	44	11723	421	41	12029	429

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
						1957	31	12407	3.5	429	31	11748	426	29	12160	432
						1958	12	13724	3.4	473	12	12611	460	10	12672	437
						1959	4	11333	3.5	393	4	12865	467	4	12960	465
794066	2	3	11798	3.7	436	1950	1	13320	3.6	483						
						1951	1	10640	3.9	413	1	10050	343			
						1952	1	9916	3.7	370	1	10390	350			
796016	1	2	14245	3.6	503	1950	1	16290	3.6	580						
						1951	1	12200	3.5	426						
796258	121	403	11946	3.6	423	1948	5	13678	3.3	456						
						1949	16	13189	3.5	464	6	12035	452			
						1950	33	13411	3.6	480	15	12723	458			
						1951	51	12212	3.5	430	31	11868	434			
						1952	72	12351	3.5	435	54	12020	434			
						1953	73	11708	3.5	413	64	11678	423	51	11511	412
						1954	57	11532	3.6	415	53	11467	415	50	11422	412
						1955	47	11921	3.5	421	44	11630	417	39	11361	407
						1956	27	11402	3.5	402	25	11606	426	25	11517	419
						1957	16	11443	3.5	401	14	11423	410	14	11420	426
						1958	3	12263	3.4	415	3	12970	456	3	12179	429
						1959	3	12287	3.5	444	2	6915	317	3	10617	362
796309	89	200	10976	3.6	398	1949	1	12670	3.6	460						
						1950	33	11018	3.6	399	9	11763	436			
						1951	24	11270	3.6	409	9	12709	455			
						1952	25	11466	3.7	424	16	12968	469			
						1953	25	11456	3.7	426	25	12401	444	22	11810	422
						1954	33	11056	3.6	404	31	11748	416	26	11817	428
						1955	23	12312	3.7	452	22	12319	444	17	12030	436
						1956	10	12133	3.6	441	15	11768	423	13	12005	433
						1957	9	11046	3.7	407	9	12008	426	8	11778	426
						1958	6	12417	3.7	457	5	12690	451	4	12699	462
						1959	2	14565	3.2	452	2	15635	511	2	13418	471
796333	1	6	11502	3.3	364	1950	1	16710	3.0	505						
						1951	1	15100	3.2	485	1	11390	435			
						1952	1	14906	3.1	467	1	12610	506			
						1954	1	4770	4.4	209	1	9220	329			
						1955	1	8490	2.6	241	1	8750	317	1	8578	293
						1957	1	9046	3.0	275	1	8486	301	1	10322	273
798291	1	3	6933	4.1	278	1951	1	8170	4.6	326	1	6380	302			
						1952	1	4480	4.4	195	1	6670	305			
						1953	1	6150	3.8	313	1	6610	310	1	7140	328
800230	2	2	6475	3.7	237	1950	1	6700	3.5	231						
						1951	1	6250	3.9	243						
801022	7	16	12000	3.5	422	1947	3	12647	3.5	435						
						1948	2	14105	3.7	522						
						1949	4	12103	3.5	417						
						1950	3	12287	3.4	418						
						1953	1	10410	3.7	386	1	9620	344	1	9418	336
						1954	1	11000	3.9	424	1	9670	356	1	12459	456
						1955	1	11520	3.8	442	1	10580	387	1	10976	402
						1956	1	6026	3.4	206	1	10310	386	1	11363	413
801058	1	1	9000	3.5	311	1948	1	9000	3.5	311						
802158	3	11	12783	3.5	443	1947	7	12033	3.5	415						
						1948	2	16000	3.5	552						
						1949	1	18030	3.4	611						
						1950	1	13510	3.8	509						
802587	28	91	11609	3.5	408	1950	7	12785	3.4	437	4	11935	419			
						1951	14	11976	3.7	437	9	11996	440			
						1952	12	12616	3.5	438	8	12155	436			
						1953	17	11471	3.6	411	16	11214	397	10	11856	421
						1954	18	11592	3.5	409	17	11612	419	14	11365	417
						1955	10	10921	3.6	396	16	12175	436	8	11823	428
						1956	10	11617	3.4	396	16	12655	449	9	12368	444
						1957	2	12005	3.6	433	2	12600	437	2	11783	443
						1958	1	13810	3.6	499	1	10510	362	1	11271	425
804734	2	3	10875	3.4	357	1948	1	14450	3.6	436						
						1949	2	10570	3.4	342						
806233	2	4	12930	3.7	464	1948	1	12490	3.9	485						
						1949	2	12635	3.6	442						
						1950	1	13960	3.5	486						
806496	19	59	11574	3.5	404	1950	3	12653	3.5	442	2	11485	399			
						1951	9	12678	3.4	431	6	9925	347			
						1952	9	11119	3.5	366	4	11798	420			
						1953	9	10613	3.6	400	9	12000	426	4	9955	354
						1954	12	10970	3.6	392	12	10212	369	8	10194	364
						1955	10	10627	3.6	377	16	11473	407	10	10980	463
						1956	5	11092	3.5	385	5	11026	394	5	11116	404
						1957	3	43293	3.6	477	3	10763	388	3	11928	439
809707	6	28	12271	3.3	396	1947	2	11406	3.5	376						
						1948	5	14320	3.1	446	1	12120	431			
						1949	4	9363	3.4	324	2	12340	468			

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

## DAUGHTER AVERAGE BY SIRE

## RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1950	5	11610	3.3	381	2	12170	454			
						1951	2	13250	3.4	448	2	12560	458			
						1952	2	12270	3.3	399	2	11760	422			
						1953	3	12100	3.3	402	3	12655	428	2	11053	406
						1954	2	12180	3.4	466	2	11205	400	2	10655	395
						1955	2	11240	3.4	377	2	11660	415	2	10695	396
						1956	1	13330	3.2	428	1	11560	436	1	13026	470
811304	1	3	17570	3.2	554	1949	1	17600	3.2	555						
						1951	1	19240	3.3	631						
						1952	1	15670	3.0	477						
812303	2	6	10564	3.6	369	1951	1	8520	3.6	303	1	10390	357			
						1952	1	10230	3.6	373	1	11090	378			
						1953	1	9600	3.9	370	1	11260	397			
						1954	2	13460	3.1	402	2	11610	417	2	10432	373
						1955	1	9390	3.7	346	1	10920	371	1	12546	459
813170	478	1082	11624	3.6	421	1952	87	12219	3.6	443	64	12168	436			
						1953	210	11848	3.7	431	181	12127	435	117	11712	417
						1954	277	11671	3.7	425	267	11591	414	239	11466	414
						1955	229	11586	3.6	420	271	12040	437	202	11515	414
						1956	136	11693	3.6	419	133	11908	434	122	11907	429
						1957	78	11376	3.6	411	75	12230	442	69	12117	428
						1958	38	12569	3.5	445	33	13084	465	32	12336	454
						1959	26	12429	3.6	453	24	13028	461	25	12291	459
						1960	1	14640	3.6	527	1	12970	448	1	13145	470
813542	4	11	10298	3.5	355	1948	4	10268	3.5	355						
						1949	2	11720	3.4	408						
						1950	1	7640	3.4	259						
						1952	1	12960	3.9	508	1	13790	425			
						1953	1	10680	3.4	364	1	10660	368			
						1954	1	11260	3.7	412	1	11630	407	1	11096	411
						1955	1	11120	3.6	396	1	9690	341	1	11042	388
813654	7	21	12244	3.5	428	1950	2	11705	3.6	416	2	12295	444			
						1951	5	11946	3.4	402	1	12120	434			
						1952	3	12620	3.4	422	1	11020	372			
						1953	2	15210	3.4	445	2	11660	429	1	10028	384
						1954	4	12270	3.2	392	4	11818	400	2	11516	406
						1955	1	10490	4.0	417	1	9200	335	1	9625	364
						1956	1	15170	3.4	451	1	11870	399	1	10006	362
						1958	2	13415	3.5	473	2	13770	545	2	13462	502
						1959	1	13670	4.3	562	1	13430	519	1	14344	562
814564	2	6	12898	3.3	425	1952	1	13260	3.4	437	1	13710	538			
						1953	1	12300	3.7	460	1	11160	397	1	10900	363
						1954	1	12470	3.4	424	1	11560	404	1	11554	414
						1955	1	15736	2.9	395	1	13530	455	1	12851	440
						1956	1	14330	2.9	415	1	15160	453	1	13026	475
						1957	1	12320	2.9	363	1	15540	536	1	13320	461
815176	1	1	9790	4.2	416	1953	1	9790	4.2	416						
815275	3	9	9557	3.5	322	1953	3	8133	3.6	287	3	10697	396	3	10628	369
						1954	3	9797	3.4	354	3	9770	365	3	11576	424
						1955	2	11660	3.2	377	2	10615	392	2	10257	372
						1956	1	13630	2.9	403	1	11390	358			
816372	2	2	9465	4.0	374	1953	1	9870	4.0	393	1	11020	399			
						1954	1	9660	3.9	354	1	11340	410	1	10638	388
816451	2	2	8975	4.0	358	1951	1	8530	4.3	368						
						1953	1	9420	3.7	348						
818478	1	1	13350	3.6	485	1956	1	13350	3.6	485	1	10140	363	1	12372	460
819478	515	889	11754	3.5	405	1950	5	13048	3.4	440	1	13690	485			
						1951	33	11861	3.5	414	15	11975	429			
						1952	33	11578	3.5	398	25	12001	430			
						1953	55	12216	3.4	417	52	11676	417	32	11752	415
						1954	95	11891	3.5	412	91	11506	409	67	11306	407
						1955	151	11654	3.5	401	149	11667	416	130	11551	411
						1956	100	11806	3.5	412	173	11724	416	151	11856	422
						1957	155	11654	3.4	400	141	11828	415	122	11826	417
						1958	107	12251	3.5	423	93	12464	442	85	11707	423
						1959	65	12302	3.5	418	62	13101	460	62	12354	456
						1960	10	11138	3.5	391	10	12793	459	3	13836	501
820661	38	123	11726	3.5	409	1950	3	11525	3.5	408	3	11430	436			
						1951	13	11846	3.6	427	11	12069	442			
						1952	23	12507	3.5	432	16	12277	439			
						1953	24	11994	3.4	410	21	11511	412	19	11972	423
						1954	27	10944	3.5	379	23	10681	367	23	11412	403
						1955	19	11160	3.5	397	17	11429	405	16	10970	376
						1956	10	11487	3.5	406	6	10678	375	5	10942	392
						1957	3	11547	3.5	408	2	11605	409	1	12204	461
						1958	1	10556	3.9	408	1	8640	332	1	9679	364
822438	2	8	13481	3.2	424	1950	1	11460	3.6	344						
						1951	2	14045	3.0	419	1	14910	494			
						1952	1	13780	3.4	462	1	13540	484			
						1953	1	13910	3.3	456	1	13170	483	1	14105	472

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE							RECORD AVERAGE BY SIRE BY FRESHENING YEAR									
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY MEAN RECORDS NO.	MILK LB.	FAT LB.
							HOLSTEIN									
822837	6	19	9824	3.5	346	1954	1	14070	3.3	463	1	13430	482	1	13385	484
						1955	1	14250	3.3	467	1	14300	512	1	13530	496
						1956	1	16230	3.9	625	1	15550	494	1	14453	510
						1951	1	7100	3.6	253	1	8160	298			
						1952	2	9715	3.6	352	2	9970	369			
						1953	3	9810	3.6	351	3	9507	336	2	9957	343
						1954	5	9016	3.5	313	5	11314	406	5	10401	369
						1955	3	10540	3.5	362	3	11243	408	3	10918	389
						1956	2	11560	3.5	404	2	11870	429	2	9946	356
						1957	2	10435	3.5	359	1	10550	384	1	10453	374
822968	6	7	10702	3.4	366	1958	1	15610	3.5	547	1	12560	471	1	12535	462
						1947	3	11263	3.5	399						
						1948	1	12480	3.6	455						
						1953	2	10105	3.2	328	1	10890	343			
						1954	1	11320	3.4	388						
823055	11	35	11453	3.6	410	1951	2	8815	3.8	332	2	11860	495			
						1952	4	10660	3.5	389	3	12930	443			
						1953	0	11510	3.5	402	8	10978	402	6	11183	409
						1954	7	11943	3.6	434	6	11408	407	5	11417	415
						1955	5	12062	3.8	447	5	10956	407	5	11308	416
						1956	5	12446	3.6	450	5	11638	450	5	11382	424
						1957	2	12700	3.5	447	2	12630	479	2	12982	493
						1958	2	12190	3.6	440	2	11360	438	2	12862	486
						1947	1	9980	3.2	317						
						1948	1	11710	3.2	370						
824230	1	4	12420	3.1	379	1952	1	13460	3.3	443	1	10020	346			
						1953	1	10760	3.0	321	1	11460	381			
						1954	1	12260	2.9	357	1	12250	385	1	12415	437
						1955	1	13200	3.0	393	1	11450	390	1	11521	367
824237	84	241	11194	3.5	390	1950	4	11418	3.3	380	4	12215	404			
						1951	16	11073	3.5	388	16	11281	402			
						1952	42	11450	3.5	396	41	11791	420			
						1953	61	11355	3.5	397	59	11664	421	40	11284	400
						1954	40	11114	3.5	391	45	11538	412	45	11514	412
						1955	39	11466	3.5	399	36	11306	405	34	11159	398
						1956	22	11068	3.5	387	21	11902	427	16	11901	432
						1957	6	11940	3.3	400	6	11357	424	4	12854	470
						1958	3	12870	3.3	426	3	13630	481	2	12454	455
						1949	1	13700	3.6	524						
824340	593	1522	11526	3.8	434	1950	24	11920	3.8	454	13	11838	434			
						1951	82	11810	3.8	442	59	11999	431			
						1952	187	11922	3.0	447	154	11891	428			
						1953	268	11538	3.8	436	249	11484	413	187	11413	412
						1954	296	11261	3.8	423	287	11499	412	240	11332	411
						1955	261	11736	3.8	446	253	11983	427	215	11667	420
						1956	195	11668	3.8	440	189	11950	428	170	12043	414
						1957	114	11686	3.7	434	109	11560	416	101	11853	426
						1958	57	12183	3.7	452	50	12431	444	49	11852	429
						1959	33	13045	3.6	490	32	12775	460	30	12093	448
						1960	4	13973	3.5	403	4	12580	447	2	14519	510
						1951	1	17760	3.1	543	1	9320	566			
						1952	2	12505	3.2	396	2	11445	514			
						1954	1	7090	3.3	234	1	10340	432	1	9712	388
825351	1	1	13180	3.5	467	1958	1	13180	3.5	467	1	12770	476	1	12600	473
825625	14	40	10389	4.0	409	1950	2	9655	3.7	346	1	11860	436			
						1951	8	10820	4.0	424	7	12683	476			
						1952	6	10082	3.9	385	5	12990	451			
						1953	11	10994	3.9	426	11	11345	419	8	11140	404
						1954	4	9345	4.0	375	4	10358	376	4	11530	430
						1955	4	9730	4.4	425	3	11280	423	2	11178	409
						1956	3	9560	3.8	359	3	10790	392	2	11042	409
						1957	1	12880	3.7	479	1	14040	497	1	13265	482
						1958	1	13010	4.1	534	1	12670	474	1	10159	370
						1949	3	11927	3.3	395	1	16040	528			
826120	38	124	11634	3.5	403	1950	29	12276	3.5	425	11	12852	451			
						1951	21	11582	3.5	408	12	11681	412			
						1952	23	10753	3.5	375	21	11265	404			
						1953	21	10924	3.6	392	20	11536	412	16	11325	396
						1954	15	10443	3.6	368	15	11050	391	15	11601	412
						1955	6	10905	3.4	373	6	11673	417	6	11260	394
						1956	3	11130	3.5	387	3	11267	397	3	11928	424
						1957	3	11763	3.3	389	3	11230	397	3	11307	395
						1951	1	11110	3.7	416	1	11190	467			
						1952	1	14440	3.5	510						
826435	3	9	13504	3.5	477	1953	1	9430	3.7	349	1	7270	380	1	10246	380
						1954	2	13195	3.7	480	1	10130	393	1	10519	392
						1955	2	12800	3.6	449	1	8610	346	1	10093	359
						1956	2	12895	3.5	442	1	8570	357	1	9810	388
						1951	3	10787	3.9	420	1	10460	466			
826750	13	41	11808	3.8	441	1952	7	10814	3.9	414	4	10813	390			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1953	10	11014	3.7	406	10	10634	373	5	10176	376
						1954	4	13743	3.6	500	4	12193	419	3	11990	431
						1955	6	12958	3.8	492	6	11553	441	5	11458	413
						1956	6	13260	3.7	489	6	11930	462	5	11288	440
						1957	3	13067	3.9	499	3	12997	517	3	12735	479
						1958	1	13840	3.6	497	1	16410	585	1	15097	546
						1959	1	15290	3.4	523	1	14320	537	1	15674	577
827003	2	6	11805	3.6	418	1947	2	11020	3.6	393						
						1949	1	14200	3.6	515						
						1950	1	11260	3.4	383						
						1951	1	12990	3.6	471						
						1952	1	11910	3.4	403						
827878	4	9	9803	4.0	386	1949	3	10280	4.2	429						
						1950	4	9690	3.9	375						
						1951	1	10000	3.8	380						
						1952	1	9440	3.6	343						
820627	9	23	10600	3.6	380	1952	5	8624	3.8	327	2	10600	372			
						1953	3	13450	3.4	461	3	12267	418	1	14225	475
						1954	7	11793	3.5	415	7	11676	404	7	11430	395
						1955	3	12893	3.3	423	3	12573	407	3	12306	414
						1956	3	14330	3.3	481	3	11687	388	3	12804	431
						1957	1	13970	3.6	506	1	11750	410	1	11467	376
						1958	1	15470	3.2	492	1	13260	428	1	12818	434
828803	378	1031	11352	3.7	416	1950	1	8940	3.8	536						
						1951	37	11839	3.7	439	26	11852	423			
						1952	116	11476	3.7	426	92	11575	422			
						1953	197	11207	3.7	417	177	11605	419	119	11469	413
						1954	206	11213	3.7	412	196	11556	415	177	11363	410
						1955	174	11765	3.7	431	166	11904	428	152	11495	415
						1956	134	11841	3.7	437	128	11849	424	117	11854	426
						1957	81	11821	3.6	428	79	11967	436	76	11896	429
						1958	52	12503	3.6	453	47	12728	450	42	12351	458
						1959	27	12990	3.6	465	26	12725	462	26	12744	480
						1960	6	12450	3.5	440	6	12522	453	1	13287	505
828821	1	2	11950	3.3	390	1951	1	10050	3.2	322						
						1952	1	13850	3.3	457						
829607	1	1	9250	4.0	368	1950	1	9250	4.0	368						
829732	72	258	11335	3.6	409	1949	10	11531	3.5	404	5	13156	473			
						1950	26	10969	3.8	413	13	12525	441			
						1951	45	11410	3.6	413	34	12245	447			
						1952	45	11634	3.6	413	40	11646	416			
						1953	45	11606	3.6	424	44	11691	420	26	11339	405
						1954	36	11915	3.5	419	36	11899	426	30	11780	420
						1955	25	12093	3.5	421	25	12102	433	22	11886	419
						1956	15	11849	3.5	413	15	12515	459	13	12151	436
						1957	4	11945	3.6	430	4	10410	390	4	11631	454
						1958	6	14045	3.5	493	6	12367	457	6	11345	419
						1959	1	10570	4.0	425	1	12470	482	1	12252	469
830955	2	7	13863	3.7	507	1952	2	14980	3.6	540						
						1953	1	15350	3.6	550						
						1954	2	13515	3.6	472						
						1955	1	12350	3.4	425						
						1956	1	11110	4.6	511						
831073	7	12	11870	3.8	444	1953	1	11580	3.7	425	1	10920	399			
						1954	4	13258	3.9	510	4	12060	436	4	12083	442
						1955	3	10637	3.7	393	3	11417	417	3	11590	411
						1956	2	9070	3.6	319	2	10570	371	1	9637	347
						1957	2	10835	3.5	380	2	11475	412	2	12230	444
831321	570	1114	11486	3.6	409	1952	21	12027	3.7	439	20	11769	423			
						1953	53	11682	3.6	424	50	11762	429	29	10943	395
						1954	187	11271	3.6	401	177	11551	410	132	11370	408
						1955	286	11704	3.6	417	275	11957	425	239	11492	409
						1956	276	11846	3.6	422	271	12134	430	244	12313	436
						1957	161	11501	3.6	410	154	11758	422	137	12113	432
						1958	83	12038	3.6	427	69	12764	454	66	12498	443
						1959	40	11587	3.7	422	35	12608	463	37	12639	464
						1960	7	12540	3.6	447	6	12993	450	2	13282	471
831861	54	152	11653	3.4	392	1947	3	11750	3.4	405	1	16170	607			
						1948	2	12955	3.3	424	1	16890	585			
						1949	4	11896	3.3	393	2	11455	404			
						1950	5	9912	3.5	344	5	11970	462			
						1951	14	11716	3.4	397	11	11815	432			
						1952	20	12316	3.4	417	17	12668	457			
						1953	34	11345	3.4	383	31	11411	405	19	11560	405
						1954	31	11689	3.4	400	29	11610	413	29	11770	415
						1955	18	11692	3.4	393	13	12501	449	17	11759	419
						1956	11	12440	3.3	414	11	11434	414	10	12554	455
						1957	7	13410	3.3	446	7	11676	419	6	11409	412
						1958	3	10973	3.4	377	3	12107	430	2	12137	416
831996	2	2	10195	3.5	355	1947	2	10195	3.5	355						



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL DRELOING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	OVERALL FAT LB.
HOLSTEIN																
832079	1	1	10240	3.8	393	1952	1	10240	3.8	393	1	12230	441			
833968	1	1	9060	4.1	372	1952	1	9060	4.1	372						
834018	1	1	12790	3.5	446	1949	1	12790	3.5	446						
834606	1	4	10743	3.4	364	1952	1	12810	3.4	439						
						1953	1	11940	3.5	417	1	9620	352			
						1954	1	8710	3.3	263	1	8970	314	1	9200	323
						1955	1	9510	3.3	317	1	10550	372	1	10344	371
834649	44	100	10451	3.6	371	1950	8	10324	3.4	356	1	8780	343			
						1951	11	11137	3.5	383	5	11870	454			
						1952	16	10938	3.5	388	13	10963	388			
						1953	23	11644	3.6	414	19	11445	410	15	11037	391
						1954	17	11083	3.6	401	16	11044	391	12	11106	397
						1955	10	11136	3.5	389	9	10908	390	9	10399	373
						1956	9	11310	3.6	402	8	11111	399	5	10229	362
						1957	4	10713	3.3	352	4	11335	399	2	11124	401
835284	2	5	10654	3.6	376	1951	1	14740	3.6	530						
						1952	1	9590	3.7	352						
						1953	1	11500	3.4	390						
						1954	2	9580	3.5	333						
836120	1	6	11375	3.4	387	1950	1	10390	3.7	383						
						1952	1	13330	3.5	460						
						1953	2	11585	3.1	353						
						1954	1	10690	3.7	391						
						1955	1	10670	3.6	382						
838718	457	934	10659	3.5	376	1951	27	11076	3.4	378	10	11863	423			
						1952	96	11168	3.6	398	53	11983	432			
						1953	141	10900	3.6	386	124	11669	420	85	11918	429
						1954	183	10655	3.5	375	168	11857	423	140	11483	414
						1955	228	10722	3.6	382	220	12196	435	182	11690	417
						1956	142	10940	3.5	384	138	12048	428	123	12183	436
						1957	77	10672	3.5	373	74	11899	421	67	12096	451
						1958	23	12225	3.4	420	19	13104	457	19	12118	426
						1959	14	12466	3.6	448	14	13106	470	14	12896	461
						1960	3	11257	3.5	386	3	12777	450	2	13593	478
838719	2	5	13485	3.4	446	1955	1	12210	3.6	440	1	11190	392			
						1956	1	9740	3.5	344	1	11580	404	1	12001	413
						1957	1	10870	3.2	352	1	12970	444	1	11401	391
						1958	1	17200	3.1	525	1	12650	462	1	13374	456
						1960	1	14860	3.4	500	1	13390	486			
838797	13	24	11617	3.5	405	1947	3	9750	3.4	330						
						1948	5	10460	3.7	385						
						1949	4	12075	3.4	413	1	11310	386			
						1950	4	11765	3.4	403	1	10920	366			
						1951	3	10800	3.5	380	1	10940	356			
						1952	3	12977	3.5	430	2	11545	407			
						1953	2	11820	3.5	404	2	12170	432	2	11544	405
838880	1	1	10320	3.4	348	1947	1	10320	3.4	348						
839126	7	33	11979	3.4	402	1948	2	14480	3.3	463						
						1949	5	12812	3.5	420	1	11850	411			
						1950	5	12160	3.6	428	3	12140	429			
						1951	4	12320	3.6	439	3	11693	425			
						1952	4	13850	3.2	444	2	11840	427			
						1953	3	12163	3.5	403	2	11280	392	1	11718	410
						1954	3	12243	3.1	384	1	10870	384	1	11260	398
						1955	4	9573	3.3	324	3	11103	402	3	11016	390
						1956	2	12515	3.2	398	1	10360	390	1	10410	385
						1958	1	13590	3.2	429	1	11000	409	1	10911	405
839322	82	147	12025	3.8	457	1954	3	12273	3.6	446	3	12067	439	3	11572	414
						1955	22	12216	3.9	475	22	12553	455	22	12126	440
						1956	55	12086	3.8	460	35	12183	440	30	12369	446
						1957	35	12678	3.9	486	32	12724	461	27	12753	464
						1958	33	12149	3.9	471	26	12391	466	26	11519	452
						1959	10	11985	3.8	459	17	13158	472	18	12497	472
						1960	3	11900	4.0	457	3	14307	515	2	15429	474
840866	4	6	10366	3.7	388	1951	1	9270	3.9	359						
						1952	1	11310	3.7	421						
						1954	2	10240	3.7	378	2	11015	392			
						1955	1	11460	3.7	421	1	10680	407	1	10573	380
						1956	1	11490	3.8	438	1	13110	484	1	11118	414
841396	6	35	12764	3.7	473	1947	5	11750	3.7	459	1	13920	510			
						1948	4	12500	3.7	458	2	14500	494			
						1949	3	13210	3.7	489	1	13620	499			
						1950	5	13158	3.8	495	4	13525	481			
						1951	4	11793	3.6	444	4	13105	461			
						1952	3	13277	3.9	519	3	14533	504			
						1953	3	12207	3.8	465	3	13000	473	2	12813	457
						1954	3	12697	3.9	496	3	13543	485	2	13113	478
						1955	2	12905	3.9	503	2	13555	488	1	13418	492
						1956	2	14375	3.9	555	2	14165	510	1	16769	397
						1957	1	12840	4.0	510	1	13050	468			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
841476	6	15	11886	3.4	408	1952	4	12588	3.6	449	4	10673	405			
						1953	3	11247	3.5	391	2	9375	337	1	10769	393
						1954	4	10743	3.3	355	4	10700	382	4	10557	361
						1955	1	14010	3.4	482	1	12740	459	1	12764	447
						1956	2	14375	3.3	477	2	12315	434	2	11162	406
						1957	1	10550	3.6	384	1	10530	411	1	10453	374
841585	8	19	10794	3.5	371	1952	2	9215	3.8	334	2	13980	493			
						1953	4	12008	3.1	376	3	12250	450	2	13107	443
						1954	4	13225	3.6	474	4	10813	375	4	12249	420
						1955	3	12480	3.7	461	3	11727	457	3	11587	410
						1956	4	10418	3.6	375	4	11660	401	3	11652	416
						1957	2	10320	3.4	348	2	11330	379	2	11042	376
842876	25	55	11768	3.7	426	1952	7	6740	4.0	266	1	9440	350			
						1953	11	11315	3.7	419	11	10605	392	6	11342	407
						1954	11	11498	3.6	415	10	11327	411	10	10672	377
						1955	8	12889	3.7	470	8	12670	441	7	11476	422
						1956	8	13289	3.7	491	8	11344	417	6	12699	468
						1957	4	14350	3.6	516	4	13725	507	3	13843	506
						1958	6	13315	3.7	491	5	13120	477	5	10765	483
						1959	4	13903	3.4	466	4	13160	474	4	14249	516
						1960	1	18150	3.5	629						
844122	25	59	11836	3.8	453	1953	4	11973	3.6	429	4	11355	451	3	10584	409
						1954	13	11290	3.8	425	12	11237	404	11	10958	405
						1955	13	11824	3.9	467	11	12545	467	12	11293	421
						1956	8	12245	3.9	478	7	13669	472	7	11753	441
						1957	6	13187	3.9	508	6	13573	474	6	13202	479
						1958	8	13245	3.7	487	7	14269	533	8	11940	470
						1959	7	13089	4.1	527	5	13810	506	7	10458	505
845267	259	610	11622	3.5	403	1949	10	14385	3.3	473	4	11808	419			
						1950	28	12580	3.5	443	6	13049	480			
						1951	60	12161	3.5	419	24	11762	421			
						1952	98	11782	3.5	412	63	12127	440			
						1953	103	11590	3.5	404	90	11537	415	59	11382	408
						1954	104	11695	3.5	405	101	11429	408	84	11492	413
						1955	88	12319	3.4	422	85	11862	422	81	11248	399
						1956	67	11831	3.5	407	66	11966	424	62	11740	418
						1957	30	11783	3.5	411	30	12196	434	24	12063	433
						1958	14	12734	3.4	432	13	13319	464	13	12589	444
						1959	6	12997	3.5	443	6	11547	415	6	12150	438
						1960	2	10840	3.8	397	2	11255	407			
846979	22	43	10064	3.8	377	1953	9	9444	3.9	367	9	10974	411	5	10409	390
						1954	13	9956	3.8	378	13	11205	409	13	11070	406
						1955	11	10561	3.8	399	11	11658	439	10	11221	420
						1956	5	11720	3.7	440	5	11174	421	4	10693	421
						1957	1	9050	4.7	422	1	14000	516	1	14301	508
						1958	3	10407	3.6	371	3	12783	457	2	12268	466
						1959	1	11770	3.0	349	1	13280	477	1	14595	519
847176	69	170	11288	3.6	409	1951	2	10135	3.7	379	2	10395	379			
						1952	24	11870	3.7	433	22	12846	452			
						1953	47	11109	3.7	409	41	11731	429	36	11672	417
						1954	34	11263	3.6	409	32	11646	417	28	11551	424
						1955	25	11807	3.6	431	25	12084	439	23	11777	423
						1956	20	10946	3.5	381	20	12007	426	18	12114	434
						1957	12	11972	3.5	422	12	11915	428	10	11752	428
						1958	4	11345	3.6	408	4	14308	460	4	12720	445
						1959	2	12580	3.2	400	2	11635	399	2	12290	422
848258	12	31	10429	3.6	369	1950	6	9692	3.5	344	3	11463	388			
						1951	9	10657	3.6	380	4	10178	375			
						1952	8	11076	3.5	390	4	10928	388			
						1953	5	9516	3.5	340	4	10328	378	4	10930	385
						1954	2	9240	3.4	309	2	10025	342	2	11314	400
						1955	1	7400	3.2	234	1	10120	366	1	11674	412
850298	29	67	11910	3.8	452	1951	1	12920	4.3	556						
						1952	4	9413	4.0	380	4	7813	349			
						1953	15	10991	3.8	419	13	10129	385	9	10687	405
						1954	10	11752	3.9	455	9	10608	397	8	10468	391
						1955	10	12119	3.9	469	8	10770	392	8	10728	397
						1956	10	12228	3.8	466	9	12286	451	8	11990	433
						1957	5	13460	3.9	519	4	12335	465	4	12107	440
						1958	5	13548	3.8	503	5	12364	458	5	12260	453
						1959	7	12974	3.6	468	5	14128	508	7	10984	528
850533	4	10	10791	3.2	347	1949	3	11403	3.1	356	1	14160	528			
						1950	3	12393	3.2	402	1	16510	614			
						1951	1	10500	3.1	325						
						1952	2	12755	3.4	428	1	16350	589			
						1953	1	13060	3.6	472	1	13120	518	1	14105	492
850713	47	120	13196	3.4	445	1951	9	12381	3.4	421	5	10978	388			
						1952	10	11447	3.6	406	8	12623	475			
						1953	18	13381	3.6	473	16	13728	483	9	11300	409
						1954	18	13668	3.4	452	17	15517	517	17	13778	484

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	AVERAGE FAT LB.					
HOLSTEIN																					
851894	11	38	11795	3.5	413	1955	21	14531	3.4	486	15	14299	485	14	14189	479					
						1956	16	13973	3.2	449	15	14900	506	14	14689	503					
						1957	12	13503	3.3	447	12	13490	477	12	13720	471					
						1958	6	13810	3.5	475	6	13747	480	5	14547	475					
						1959	10	12360	3.4	416	9	14034	502	10	12984	503					
852725	1	1	13150	3.2	427	1950	2	11885	3.4	400	2	11885	409								
						1951	2	14095	3.5	490	2	11875	416								
						1952	6	11230	3.7	412	6	10173	399								
						1953	6	11032	3.4	377	6	10963	404	6	10544	376					
						1954	6	11995	3.5	411	6	11410	419	6	10908	387					
						1955	5	9708	3.7	362	4	10108	379	5	10137	395					
						1956	3	12117	4.0	470	2	11760	435	3	9818	370					
						1957	4	10153	3.7	366	4	9398	372	4	9734	378					
						1958	2	14900	3.3	494	2	13160	468	2	12530	439					
						1953	1	13150	3.2	427	1	14350	492								
						852926	69	155	11320	3.7	417	1947	2	16740	4.0	664					
1948	3	14203	3.8	541																	
1949	8	11745	3.7	429																	
1950	10	12801	3.7	472	1							13560	466								
1951	5	11108	3.5	386	2							14145	460								
1952	16	12273	3.7	450	10							10568	392								
1953	22	11063	3.7	408	20							10735	393	15	10806	387					
1954	29	10624	3.7	402	26							11194	405	26	11165	403					
1955	30	11031	3.8	423	30							10793	400	30	10654	396					
1956	14	10088	3.8	372	14							10694	393	14	10555	377					
1957	7	9719	3.7	356	7							10709	393	7	10701	396					
1958	7	12004	3.4	410	6							10343	402	7	9900	431					
1959	2	14400	3.5	497	2							12290	471	2	13397	475					
852929	11	34	11435	3.6	412							1948	1	8920	4.1	363					
						1949	6	11363	3.6	408	2	13190	460								
						1950	3	12240	3.3	404	2	9590	341								
						1951	6	12277	3.7	449	4	11213	390								
						1952	5	11290	3.6	425	4	11190	389								
						1953	4	12850	3.5	455	4	11123	390	4	11230	392					
						1954	4	12628	3.4	429	4	12025	416	4	11527	409					
						1955	2	11170	3.7	407	2	11365	508	2	10791	386					
						1956	2	9690	3.5	342	2	11165	397	2	10753	392					
						1957	1	11800	3.7	432	1	10390	399	1	9723	372					
						854723	3	4	13375	3.3	444	1955	3	13067	3.3	427	3	11027	399	2	11516
1957	1	17780	3.4	598	1							14660	507	1	14301	508					
856202	9	26	12281	3.5	431	1950	2	12215	3.5	427											
						1951	1	11396	3.8	430											
						1952	7	12076	3.5	419	4	12198	426								
						1953	8	12160	3.6	437	5	13198	470	2	12486	441					
						1954	4	9915	3.7	374	2	12100	439	2	12252	450					
						1955	2	13695	3.5	471	1	12430	409	1	12557	415					
						1956	1	14280	3.1	438	1	10520	330	1	11630	384					
						1957	1	12660	3.0	375				1	13124	479					
856259	2	2	12370	3.5	428	1952	1	10310	3.7	384											
						1953	1	14430	3.3	471	1	12960	427	1	12579	428					
857502	1	3	10750	3.5	376	1953	2	12295	3.5	431	2	13895	531	2	14105	492					
						1955	1	7660	3.5	266	1	14060	505	1	13538	476					
858562	7	15	11427	3.5	394	1951	2	12585	3.3	421											
						1952	5	13210	3.4	452	2	10810	400								
						1953	5	10994	3.5	392	3	11537	412	1	10126	366					
						1954	3	11180	3.5	394	3	10543	388	3	11470	418					
858591	1	3	13190	3.6	481	1953	1	12640	3.8	481	1	13310	480	1	14105	492					
						1954	1	12670	3.5	443	1	13570	484	1	13385	484					
						1955	1	14266	3.6	518	1	14380	507	1	13538	496					
858626	5	9	10113	3.9	391	1953	2	11900	3.8	445	2	11765	437								
						1954	3	9030	4.0	364	3	11033	392	1	10039	363					
						1955	3	9733	3.9	383	3	11560	416	3	11271	407					
						1956	1	11360	3.6	436	1	12290	395	1	11598	414					
858839	44	135	11200	3.5	396	1949	2	11345	3.8	419	1	14320	451								
						1950	13	11459	3.6	411	8	11765	426								
						1951	23	11323	3.5	396	16	12046	447								
						1952	27	10932	3.6	391	22	12137	443								
						1953	24	11055	3.5	388	23	11608	420	24	11432	411					
						1954	18	10998	3.5	383	18	11630	426	18	11590	416					
						1955	17	11256	3.6	402	16	12439	445	16	12554	452					
						1956	6	10110	3.5	348	6	11850	421	6	11296	404					
						1957	2	10380	3.5	357	2	14330	476	1	14475	540					
						1958	1	15250	3.7	504	1	14340	521	1	12938	480					
						1959	1	14140	3.9	559	1	13450	504	1	14083	520					
						1960	1	7420	3.1	231	1	9380	319	1	8873	302					
						859159	1	2	11940	3.8	443	1952	1	11820	3.7	432					
												1953	1	12060	3.8	454					
						859238	6	15	10441	3.7	380	1953	3	10657	3.6	388	3	11067	397	1	10595
1954	5	10502	3.7	382	5							10162	391	5	10752	410					
1955	4	10103	3.7	372	4							10093	370	3	10508	370					

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPLO BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR															
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HLRO MILK LB.	AVERAGE FAT LB.					
HOLSTEIN																					
862606	2	11	13391	3.3	440	1956	2	12035	3.9	459	2	8555	344	2	9265	368					
						1957	1	8820	4.2	368	1	9740	378	1	8862	359					
						1949	1	13730	3.3	453	1	13440	433								
						1950	2	13875	3.3	450	1	12160	396								
						1951	1	11900	3.5	411	1	10040	420								
						1952	2	14210	3.4	475	2	11370	452								
						1953	2	13205	3.3	439	2	11365	396	2	11500	423					
						1954	1	12450	3.4	428	1	11670	469	1	11543	448					
						1955	1	14880	3.1	465	1	11500	414	1	12590	491					
						1956	1	12280	3.4	417	1	12020	465	1	12579	477					
863177	31	71	11693	3.6	422	1949	1	13220	3.8	497											
						1950	1	12260	3.8	471											
						1951	1	9200	3.7	343	1	11950	404								
						1952	10	12674	3.5	443	7	12514	455								
						1953	12	11549	3.6	413	12	11478	425	10	11611	415					
						1954	11	10726	3.7	398	10	11439	418	9	11846	435					
						1955	12	11652	3.9	447	12	11263	405	12	11380	414					
						1956	12	11750	3.7	433	12	11389	424	12	11753	436					
						1957	5	12310	3.6	440	5	11130	412	5	11885	424					
						1958	4	12073	3.3	397	4	11933	432	4	12075	405					
						1959	2	13995	3.5	488	2	12070	437	2	12268	467					
						863423	1	5	12306	3.7	455	1950	1	14110	3.7	517					
												1951	1	11870	3.8	445					
1952	1	14110	3.7	518	1							14180	506								
1953	1	12300	3.7	457	1							11400	410								
1955	1	9140	3.7	340	1							10820	399	1	10900	382					
863593	5	13	11795	3.7	435	1951	1	5770	3.7	211	1	11480	381								
						1952	4	9920	3.7	368	3	10613	428								
						1953	2	7575	3.8	296	2	10375	409								
						1954	3	13783	3.7	517	2	10680	399	1	10508	415					
						1955	1	12150	3.9	476	1	11950	417	1	11292	408					
						1956	2	12415	3.7	452	2	10780	396	2	11386	431					
863787	8	31	11819	3.7	437	1949	1	9870	3.3	330											
						1950	5	12286	3.8	475	3	12770	449								
						1951	5	12358	3.7	447	3	12677	465								
						1952	7	11874	3.9	464	5	11376	410								
						1953	6	12257	3.7	454	5	11296	402	4	11118	416					
						1954	5	12892	3.5	443	4	11778	439	4	12639	471					
						1955	1	12340	3.0	371											
						1956	1	13710	2.7	368											
						864216	3	12	12151	3.3	398	1949	2	10570	3.3	343					
1950	2	11195	3.5	388	1							12010	412								
1951	2	12360	3.3	403	2							12410	422								
1952	2	13980	3.5	475	2							12765	447								
1953	2	14045	3.4	469	2							10995	398	2	11941	418					
1954	2	13590	3.3	442	2							11785	420	2	11614	435					
864818	24	58	10078	3.6	364	1951	2	10085	3.7	377											
						1952	7	10059	3.7	369	4	10330	383								
						1953	14	9136	3.6	332	13	10145	368	4	11273	410					
						1954	14	9735	3.6	349	14	11571	411	13	10389	369					
						1955	4	11410	3.6	415	4	11335	466	3	11042	409					
						1956	9	11588	3.6	418	7	10711	385	7	11291	409					
						1957	1	13400	3.5	471											
						1958	4	12555	3.6	455	3	11543	440	3	11103	418					
						1959	3	12943	3.6	461	2	11920	465	2	12688	470					
						865315	91	181	11220	3.8	421	1953	1	10460	3.5	369					
1954	24	11577	3.7	431	24							11935	425	22	11634	424					
1955	39	11145	3.8	421	38							12096	434	35	11615	416					
1956	38	12288	3.7	455	37							12418	449	37	12358	445					
1957	33	11882	3.6	445	32							11758	425	31	12154	438					
1958	24	12543	3.7	466	20							13214	472	17	12361	447					
1959	21	11289	3.8	423	19							12289	448	20	12039	454					
1960	1	12110	3.8	457	1							11730	437								
865323	55	100	11994	3.8	458							1954	8	11645	3.7	430	7	12621	471	5	11090
						1955	25	11968	3.8	450	25	12603	464	21	11603	423					
						1956	27	12512	3.8	474	26	12338	462	23	11374	421					
						1957	16	12300	3.9	472	15	12263	457	15	11688	432					
						1958	16	13048	3.6	500	15	12629	469	10	11696	437					
						1959	7	14410	4.2	600	7	12474	478	6	12471	466					
						1960	1	9650	3.5	333	1	11130	386								
						866063	7	18	9975	3.5	350	1951	3	9000	3.5	318	3	8523	317		
1952	5	9804	3.6	350	5							11122	450								
1953	5	9500	3.5	327	5							9924	370								
1954	3	9873	3.6	349	3							9623	355	3	9643	348					
1956	1	10190	3.5	338	1							9670	340	2	10900	376					
1957	1	9410	3.5	307	1							9490	355	1	9657	340					
868738	8	21	10714	3.6	383	1952	4	11308	3.6	397	3	11017	385								
						1953	6	10872	3.6	390	5	11132	407	2	11505	409					
						1954	5	11410	3.6	414	5	10738	392	4	10293	390					
						1955	3	9717	3.9	375	3	11373	429	3	11191	420					
						1956	2	9930	3.6	354	2	11860	438	2	11386	431					
						1957	1	13610	3.5	474	1	10350	448	1	12459	500					
						868927	28	74	12133	3.5	420	1947	2	13455	3.7	489					
1948	1	16980	3.6	615																	
1949	1	12290	3.5	407																	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1950	2	13245	3.6	473						
						1951	2	13260	3.5	466						
						1952	6	14675	3.4	492	3	12157	433			
						1953	20	12110	3.5	421	18	12424	435	5	11938	414
						1954	15	11873	3.5	415	14	12059	422	9	12295	431
						1955	9	14193	3.5	501	9	12674	456	7	12867	452
						1956	8	14493	3.5	506	7	12714	441	5	12672	432
						1957	7	13604	3.3	464	6	13332	457	6	13692	468
						1958	1	9550	4.5	427	1	12030	419	1	12099	416
869645	3	6	8057	4.1	326	1951	2	7480	4.1	301	2	10220	383			
						1953	3	8717	3.9	346	3	9807	380	2	9407	373
						1954	1	7230	4.3	311	1	6730	292	1	6725	295
870736	10	27	9953	3.8	369	1952	4	8700	3.8	325	4	9858	356			
						1953	10	9903	3.8	376	10	9501	349	4	9205	354
						1954	6	10820	3.4	361	6	10268	364	6	9398	336
						1955	4	12715	3.7	469	4	11525	441	4	10971	415
						1956	2	13915	3.7	512	2	12040	459	2	12846	484
						1957	1	9300	3.6	335	1	10600	387	1	11739	452
871953	4	14	11981	3.9	456	1951	1	13690	3.4	466						
						1952	1	15880	3.9	612						
						1953	2	11215	4.1	457	2	11680	420			
						1954	3	11857	4.0	471	3	11713	403	3	10039	363
						1955	3	10243	3.7	361	3	11687	412	3	12546	459
						1956	1	10910	3.5	386	1	10900	397	1	11576	409
						1957	2	11610	3.7	427	2	12245	438	2	11619	429
						1958	1	11880	4.0	477	1	12120	433	1	11870	457
872945	147	268	11008	3.7	401	1952	13	12411	3.6	441	9	12773	470			
						1953	46	11267	3.6	408	42	11675	420	24	11365	415
						1954	53	11080	3.7	408	51	11268	410	47	11625	420
						1955	55	11395	3.8	427	55	11957	432	40	11699	427
						1956	46	10899	3.7	402	44	11816	430	30	11525	418
						1957	31	11128	3.6	402	29	12064	438	24	12193	440
						1958	13	12085	3.6	434	11	13200	475	11	12556	455
						1959	11	13492	3.5	478	10	13510	498	9	10958	500
873313	125	230	12000	3.6	426	1952	7	12297	3.7	455	1	14320	479			
						1953	20	12759	3.6	451	3	12787	441	3	13396	469
						1954	37	12126	3.5	424	10	12675	450	9	12397	436
						1955	50	12252	3.5	430	17	12089	430	13	12051	426
						1956	46	12240	3.6	435	22	12643	461	18	11927	433
						1957	53	11935	3.6	424	17	12395	457	17	12022	444
						1958	23	11507	3.5	405	19	12742	465	17	11859	436
						1959	12	12654	3.7	466	9	12433	457	11	10771	474
						1960	2	12530	3.9	486	2	15475	536	1	15620	538
873324	77	184	11573	3.7	422	1951	7	11871	3.6	425	6	11597	403			
						1952	20	12054	3.8	452	19	12226	430			
						1953	26	11472	3.7	428	22	11705	422	18	11967	423
						1954	36	10631	3.6	384	34	11260	403	33	11582	416
						1955	31	11981	3.6	430	31	12020	433	26	11793	425
						1956	27	12577	3.6	453	26	11948	429	24	11619	417
						1957	12	11600	3.6	415	12	12205	430	11	12508	453
						1958	15	11992	3.6	433	12	13717	498	11	12684	456
						1959	10	13628	3.7	503	10	14143	531	9	15233	556
						1960	2	13495	3.4	452	2	14540	520	1	13821	481
874106	11	18	11989	3.8	456	1953	1	7000	3.6	251	1	11630	413			
						1954	4	11310	4.2	468	4	12108	460	3	12037	444
						1955	3	11317	3.9	446	3	12113	453	3	11641	434
						1956	5	11946	3.6	432	5	11274	421	5	11214	409
						1958	2	12550	3.8	492	2	12985	470	2	12955	463
						1959	2	14625	4.1	590	2	13305	465	2	14972	530
						1960	1	12580	3.5	435						
876822	1	1	10590	3.8	399	1952	1	10590	3.8	399						
877452	12	26	9526	3.7	350	1952	6	9923	3.7	365	4	12475	443			
						1953	11	9434	3.7	340	8	11786	411	8	11305	396
						1954	6	10662	3.6	385	6	11373	411	6	12491	424
						1955	2	8920	3.8	341	2	10810	383	2	11244	397
						1956	1	9730	3.9	380	1	10090	367	1	9745	368
877481	1	1	9480	3.7	353	1952	1	9480	3.7	353						
877488	2	2	13125	3.8	501	1955	1	14800	3.6	538	1	10190	364			
						1956	1	11450	4.0	463	1	10030	372			
877660	1	2	10950	3.6	390	1956	1	12850	3.5	447	1	12030	500			
						1959	1	9050	3.7	333	1	14020	465			
878276	698	1252	12064	3.5	418	1953	21	11987	3.5	414	21	12160	459	14	11500	410
						1954	131	11997	3.5	418	120	11751	420	111	11598	418
						1955	291	12110	3.5	424	282	12140	435	237	11497	414
						1956	351	11977	3.5	417	345	11990	427	299	12158	435



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										YEARLY HERO AVERAGE			
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																			
						1957	251	11874	3.4	407	231	11929	421	211	12041	428			
						1958	116	13079	3.4	445	107	12635	446	92	12124	432			
						1959	83	13500	3.4	453	77	13125	468	75	12176	457			
						1960	8	13311	3.4	448	8	12650	440	3	14323	503			
878520	25	50	11811	3.6	420	1954	4	10018	3.6	360	4	10150	365	3	9654	364			
						1955	18	11339	3.6	407	18	11965	438	18	11242	409			
						1956	14	11522	3.5	407	14	11969	431	14	11595	413			
						1957	7	12776	3.5	444	7	12389	454	7	12281	445			
						1958	5	13736	3.5	481	4	13560	481	4	13410	475			
						1959	2	12945	3.7	477	2	12620	455	2	12900	455			
878665	44	99	11984	3.6	428	1952	2	9035	3.8	358	1	10690	387						
						1953	13	11711	3.7	430	12	11017	410	7	12088	443			
						1954	12	12262	3.6	442	12	11999	432	10	11535	428			
						1955	13	12775	3.6	467	12	12037	448	10	11615	417			
						1956	15	12969	3.7	477	14	13011	474	13	11885	436			
						1957	13	12370	3.7	454	13	12948	469	12	12866	471			
						1958	21	12747	3.5	447	17	12571	441	18	13178	476			
						1959	8	13071	3.6	474	8	14134	498	8	13045	467			
						1960	2	11155	3.6	401	2	12200	445	1	11739	433			
879934	7	21	11419	3.6	404	1952	1	11800	3.7	436	1	12740	466						
						1953	6	11532	3.6	415	6	11392	448	2	12165	430			
						1954	6	10128	3.6	364	6	11430	409	4	11026	410			
						1955	5	12074	3.5	425	5	11614	420	5	11835	434			
						1956	2	11565	3.3	379	2	11485	393	2	11663	411			
						1957	1	9650	3.3	318	1	11510	391	1	12829	436			
880210	16	33	11765	3.7	439	1952	3	10683	4.2	443	2	11725	452						
						1953	12	11708	3.6	428	10	11060	398	6	11023	399			
						1954	4	11320	3.9	436	4	11918	436	4	11884	430			
						1955	4	10885	3.7	404	4	12653	443	4	10799	392			
						1956	4	13388	3.8	498	3	13050	478	2	12606	452			
						1957	3	14470	3.9	585	3	12880	471	1	12154	438			
						1958	2	10095	3.5	357	2	12335	453	1	13233	481			
						1959	1	13620	3.5	485	1	12030	426	1	15271	529			
881760	1	1	9560	3.6	341	1952	1	9560	3.6	341									
881770	2	7	9040	3.6	318	1950	2	9165	3.5	323	1	11670	411						
						1951	1	8680	3.2	279	1	11310	400						
						1952	2	8080	3.6	286	1	11010	369						
						1953	1	9640	3.8	370									
						1954	1	10970	3.3	359	1	10970	374	1	11674	388			
885830	1	1	11710	3.6	421	1959	1	11710	3.6	421	1	10760	398	1	11020	412			
886818	57	66	11304	3.7	417	1955	2	11070	3.6	397									
						1956	29	10503	3.7	389	27	11956	416	22	11994	418			
						1957	34	11697	3.7	434	34	12021	425	31	11961	425			
						1958	12	13242	3.6	485	10	13755	480	7	13184	475			
						1959	9	12653	3.8	476	9	13062	482	8	13229	472			
887669	10	50	11734	3.8	441	1949	1	5470	4.6	260									
						1950	1	9210	4.3	393									
						1951	8	11620	4.0	454	3	11850	429						
						1952	11	11575	3.9	446	4	13133	501						
						1953	11	12105	3.7	446	6	12637	410	9	11498	410			
						1954	6	11390	4.0	449	5	11784	381	5	10965	395			
						1955	4	12163	3.7	450	4	12295	408	4	12282	430			
						1956	5	12410	3.7	456	5	14036	452	5	12373	424			
						1957	1	12870	3.4	440	1	13540	481	1	12437	434			
						1958	1	10020	3.7	374	1	12240	444	1	13353	470			
						1959	1	11740	3.6	420	1	13020	489	1	12481	481			
890161	58	101	11361	3.9	441	1954	3	9187	3.8	351	3	11410	403	3	12092	444			
						1955	17	10769	3.9	422	17	12319	449	15	11764	430			
						1956	28	11225	3.9	432	27	12216	448	24	11833	435			
						1957	24	11442	3.9	447	23	12353	457	22	11780	436			
						1958	11	12925	4.1	525	11	12976	488	9	13160	491			
						1959	16	12905	4.0	510	14	13209	482	13	11104	480			
						1960	2	11630	4.0	480	2	13915	497						
890463	1	1	16820	3.5	591	1959	1	16820	3.5	591	1	12920	457	1	9527	365			
891547	23	51	11402	3.7	427	1952	5	10658	3.5	375	1	9860	370						
						1953	10	10033	3.9	393	9	10394	380	6	9821	368			
						1954	9	11523	3.8	439	9	11209	405	9	10612	390			
						1955	8	10953	3.8	416	8	10646	399	8	10504	385			
						1956	7	10164	3.7	377	7	11694	419	6	11787	428			
						1957	7	11074	3.6	400	7	11204	409	7	11718	432			
						1958	3	13380	3.6	490	3	13020	486	3	12015	454			
						1959	2	13215	3.7	500	2	13340	485	2	13718	495			
891850	3	9	11398	3.8	440	1952	1	8820	3.8	331	1	9120	320						
						1953	3	12320	3.9	477	3	10000	367	3	10384	355			
						1954	2	11705	3.6	418	2	10665	381	2	9505	335			
						1955	1	9750	3.8	366	1	11760	427	1	11085	383			
						1956	1	12110	3.7	449	1	11610	440	1	11805	437			
						1957	1	9750	3.5	319	1	12610	451	1	12154	438			
892874	14	36	11580	3.4	392	1957	5	13380	3.4	448	4	12405	445						
						1953	9	10656	3.6	380	9	10509	374	9	10921	388			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1954	11	12115	3.5	420	10	11761	421	11	12035	427
						1955	6	11422	3.4	384	6	12113	429	6	12121	425
						1956	4	11978	3.4	406	3	12283	448	4	12592	447
						1959	1	13240	3.2	421	1	13470	493			
895361	2	5	17577	3.4	590	1950	1	17280	3.5	601						
						1951	1	16040	3.4	552	1	15310	553			
						1952	1	14880	3.3	488	1	15320	546			
						1954	1	16010	3.3	533	1	14540	487	1	14323	512
						1959	1	19100	3.3	635	1	16380	572			
895364	1	1	11200	3.4	378	1948	1	11200	3.4	376						
895906	337	913	12231	3.5	427	1951	30	13124	3.6	464	17	13124	477			
						1952	120	12325	3.6	438	73	11798	425			
						1953	179	12636	3.5	441	162	11596	418	118	11489	411
						1954	198	12234	3.5	426	190	11740	422	176	11469	414
						1955	162	12679	3.5	443	155	12095	435	143	11877	424
						1956	104	12457	3.5	431	101	12155	437	86	12179	437
						1957	75	11806	3.5	417	71	11831	429	64	11869	427
						1958	28	13069	3.4	442	23	12573	453	23	11717	448
						1959	15	12849	3.6	455	15	12005	438	14	12771	461
						1960	2	9125	3.4	309	2	12050	442	1	11238	429
895914	1	2	13125	3.1	407	1952	1	15720	3.1	494	1	17630	647			
						1953	1	10530	3.0	319	1	15570	583	1	16110	570
897534	31	68	10970	3.5	381	1949	6	11173	3.4	374	5	16960	503			
						1950	4	12173	3.5	426	1	14810	486			
						1951	6	11415	3.6	409	3	14097	480			
						1952	4	12130	3.3	398	2	12850	444			
						1953	7	11759	3.4	404	7	12371	446	5	13028	446
						1954	10	10811	3.7	389	9	11510	421	8	11977	425
						1955	13	10750	3.5	377	13	12403	451	13	11490	406
						1956	5	10662	3.4	359	5	12884	448	5	12622	444
						1957	5	10418	3.7	380	5	11016	397	2	11511	406
						1958	6	10512	3.4	359	6	10840	393	5	10717	372
						1959	2	10625	3.4	357	1	9100	327	2	10993	412
898064	4	5	10859	3.8	407	1949	3	11403	3.7	422						
						1950	1	12690	4.4	563						
						1952	1	7910	3.5	278						
898594	136	325	11344	3.7	414	1953	74	11410	3.7	423	69	11837	427	51	12039	433
						1954	76	11699	3.7	427	75	12117	431	66	11801	429
						1955	79	11396	3.7	416	77	12075	430	64	11692	421
						1956	45	11554	3.6	416	45	12583	443	41	12626	450
						1957	31	11261	3.6	408	31	11839	416	28	12289	438
						1958	16	11821	3.4	404	15	12816	447	16	11629	437
						1959	3	13397	3.5	467	3	13273	469	3	13356	470
						1960	1	13030	3.9	509	1	13790	493			
898622	100	161	11526	3.8	439	1954	1	11800	4.1	481						
						1955	1	9960	3.9	391						
						1956	43	11703	3.9	451	42	11795	424	35	11994	432
						1957	59	11067	3.9	427	56	11849	417	52	12219	436
						1958	33	12738	3.7	476	28	12669	440	27	12195	453
						1959	21	12712	3.7	475	20	12204	431	18	12415	445
						1960	3	14427	3.7	546	3	14233	524	2	13571	492
899650	3	3	11920	3.0	360	1951	1	14240	3.1	447						
						1952	1	8790	3.2	278						
						1956	1	12730	2.8	354	1	11220	449			
900274	14	21	13515	3.8	515	1958	9	13259	3.8	506	9	13194	492	8	12448	458
						1959	11	13787	3.6	525	11	12562	454	11	12522	456
						1960	1	8670	4.4	383						
900841	1	1	7730	3.2	244	1951	1	7730	3.2	244	1	11800	376			
901196	116	236	11138	3.7	409	1953	29	10883	3.6	394	28	11328	412	21	11682	418
						1954	57	11410	3.7	421	55	11931	431	53	12070	436
						1955	47	11721	3.7	434	46	12496	449	39	12303	446
						1956	42	11004	3.7	408	41	11966	428	33	11748	430
						1957	33	10680	3.8	398	32	11815	420	28	11717	421
						1958	17	11910	3.7	432	15	12275	435	14	12358	436
						1959	9	13029	3.7	479	8	13195	492	9	11635	470
						1960	2	6970	3.4	224	2	11140	381	2	11663	419
901453	1	3	15700	3.2	504	1949	1	14660	3.2	465						
						1950	1	17600	3.3	519						
						1951	1	14840	3.2	468						
902828	7	31	11728	3.6	417	1950	2	9460	3.5	332	2	6990	316			
						1951	2	13040	3.6	467	2	10690	383			
						1952	3	10303	3.7	383	3	9707	364			
						1953	6	11043	3.6	393	6	10680	389	1	11314	431
						1954	5	11650	3.4	389	5	10826	389	5	10065	365
						1955	4	12383	3.5	429	4	10818	390	4	11415	415
						1956	2	14205	3.7	526	2	11750	457	2	12650	468
						1957	3	12510	3.7	458	3	11527	423	3	10522	388
						1958	3	12490	3.6	453	3	11417	432	3	11579	423
						1959	1	16430	3.6	596	1	11210	403	1	11718	411
902936	4	8	11228	3.4	379	1951	1	8270	3.2	264						

TABLE 15.--DAUGHTER-AVERAGE OF SIRS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. LB.	AV. FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	
HOLSTEIN																	
						1952	2	10495	3.3	358							
						1953	3	11357	3.3	371	1	9050	342	1	8873	359	
						1954	1	8850	3.4	296	1	9670	366	1	9330	352	
						1955	1	11450	3.6	414	1	10200	415	1	9963	372	
903191	1	1	8780	3.6	318	1955	1	8780	3.6	318	1	14860	526	1	13533	496	
903193	9	12	11529	3.7	430	1955	5	11916	3.6	450	3	12350	440	5	12023	457	
						1956	3	10917	3.6	419	3	11000	460	2	11217	456	
						1957	3	12397	3.6	451	2	10595	397	2	11500	454	
						1958	1	11610	4.1	475	1	11760	455	1	11096	507	
904220	17	24	12786	3.8	481	1957	2	15345	3.6	549	2	12660	455	2	12012	451	
						1958	11	12448	3.9	477	9	12093	473	11	11248	460	
						1959	8	12010	3.8	459	6	11442	425	8	9918	475	
						1960	3	17020	3.6	611	3	14117	510	1	14682	559	
904550	18	31	11869	3.6	429	1948	1	8700	3.2	282	1	11190	401				
						1949	1	12350	3.3	408	1	9750	362				
						1950	1	12050	3.3	398	1	10780	364				
						1952	2	11970	3.3	390	2	11135	374				
						1954	2	12266	3.5	430	2	11595	407	1	11957	417	
						1955	5	12490	3.6	443	5	12356	434	2	11669	401	
						1956	9	11212	3.5	391	9	12770	443	5	11731	418	
						1957	8	12666	3.7	463	8	13819	473	6	13286	455	
						1958	2	14140	3.6	509	1	14440	475	1	15478	520	
904819	4	5	10184	3.7	380	1954	1	8390	3.3	275	1	10060	370	1	9232	362	
						1955	2	10185	4.0	403							
						1956	1	9990	3.7	368							
						1960	1	12320	3.6	443	1	14780	446				
905404	106	212	11005	3.8	413	1951	5	9438	3.7	343	1	14060	531				
						1952	19	10881	3.8	413	12	11770	434				
						1953	39	10493	3.8	400	37	11448	413				
						1954	43	11335	3.8	425	42	10894	394	20	11158	408	
						1955	43	11610	3.7	434	40	11635	426	32	11210	412	
						1956	31	11268	3.7	421	31	11455	418	40	11729	422	
						1957	18	11138	3.7	410	16	11625	417	23	11217	415	
						1958	11	14093	3.8	534	9	13591	495	17	12151	435	
						1959	2	13390	3.9	517	2	13380	480	10	11915	470	
						1960	1	16520	3.6	603	1	14360	507	2	14682	554	
905694	13	29	12060	3.7	440	1952	1	12870	3.6	462	1	11710	415				
						1953	7	12181	3.8	468	7	10656	412	5	11624	410	
						1954	6	11610	3.7	423	5	10356	376	4	10009	376	
						1955	8	12598	3.7	458	8	10859	411	7	11409	423	
						1956	6	12708	3.7	469	6	11973	433	6	12148	435	
						1958	1	13340	3.9	517	1	10960	457	1	11750	461	
906000	9	10	12992	3.8	478	1955	1	11190	4.1	462	1	14880	558	1	12764	455	
						1957	2	10465	4.0	422	2	13520	482	1	13266	470	
						1958	4	14053	3.5	484	4	13413	480	4	12939	477	
						1959	3	13953	3.6	497	3	12673	458	3	12997	467	
907607	13	33	11707	3.6	423	1952	4	14593	3.5	501	4	12573	444				
						1953	7	12711	3.7	462	6	11517	418	5	12686	457	
						1954	6	10953	3.7	411	6	11002	396	6	11812	419	
						1955	6	11690	3.7	425	5	9642	345	5	10381	375	
						1956	2	12730	3.6	449	2	12755	423	2	12350	441	
						1957	3	11527	3.5	403	3	12887	448	1	13276	472	
						1958	4	15410	3.4	518	3	13587	462	3	11732	415	
						1959	1	19510	3.4	665	1	11960	421	1	12622	465	
908810	1	3	12503	3.2	402	1953	1	7890	3.5	278	1	13190	471	1	13614	483	
						1955	1	16450	3.2	528	1	12970	456	1	12982	467	
						1957	1	13170	3.0	399	1	13010	445	1	12829	468	
909363	8	14	11334	3.4	385	1953	3	12550	3.5	439	3	11677	452	2	11505	409	
						1954	2	9665	3.5	339	2	11470	401	1	10824	382	
						1955	4	10963	3.4	369	4	11733	429	4	10857	404	
						1956	2	11895	3.2	380	2	12320	418	2	11980	420	
						1957	1	9620	3.1	301	1	12420	456	1	10747	374	
						1958	1	10800	3.4	367	1	13380	440	1	11598	400	
						1959	1	12030	3.4	413	1	14140	479	1	13547	456	
910290	1	2	15150	3.2	474	1958	1	14460	3.2	464	1	10830	415				
						1959	1	15840	3.1	484	1	11260	431				
910630	62	112	12081	3.9	465	1954	3	10820	4.0	433	3	11720	434	2	10742	392	
						1955	21	11103	4.0	443	21	11776	427	19	10404	385	
						1956	21	12711	3.9	500	19	12087	448	17	11401	415	
						1957	28	11852	3.8	451	24	12470	461	24	12432	452	
						1958	24	12762	3.8	485	22	12905	469	18	11305	439	
						1959	13	12165	3.9	474	11	12948	467	12	12089	466	
						1960	2	12630	4.0	506	2	12375	440	2	12094	442	
910828	101	222	10858	3.6	389	1950	4	13568	3.7	502	1	13960	515				
						1951	10	11422	3.7	420	8	12516	449				
						1952	23	10855	3.6	386	22	11773	422				
						1953	31	10959	3.7	402	31	11012	398	20	10668	389	
						1954	39	10439	3.6	373	35	11179	394	33	11231	406	
						1955	49	10928	3.6	392	47	11531	414	39	11260	400	
						1956	35	11516	3.6	411	32	11661	429	27	11667	421	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1957	19	11705	3.5	414	19	11792	428	16	12084	430
						1958	9	12249	3.5	430	8	12081	433	8	12098	432
						1959	2	13710	3.6	491	2	12345	485	2	12623	469
						1960	1	10270	3.5	355	1	14630	556			
910991	69	75	14018	3.6	506	1958	5	15346	3.6	548	5	13504	496	5	12986	479
						1959	54	14107	3.6	508	54	13139	490	51	13487	491
						1960	16	13059	3.7	482	15	13114	477	4	12898	478
911810	1	1	13670	3.6	488	1953	1	13670	3.6	488						
912280	8	16	9008	4.0	357	1952	2	10880	3.9	420	1	11260	430			
						1953	5	9660	4.1	396	4	11703	429	2	11505	409
						1954	3	8223	4.1	342	2	11865	439	2	11598	444
						1955	3	9920	3.8	382	2	9730	340	2	9679	355
						1956	2	10545	3.9	410	1	11660	408	1	10257	363
						1957	1	12660	4.1	519	1	12090	432	1	10747	374
914239	9	36	11740	3.5	399	1951	4	9050	3.7	326	3	11293	394			
						1952	7	12785	3.5	444	7	11417	425			
						1953	9	11852	3.4	396	9	11711	415	8	11497	402
						1954	3	11063	3.3	358	3	13160	449	3	11590	398
						1955	4	11438	3.5	387	4	13220	467	4	12500	433
						1956	5	12816	3.4	428	5	12568	452	5	13047	465
						1957	2	11230	3.3	376	2	13025	479	2	12617	467
						1958	1	10310	3.6	369	1	15490	537	1	14334	511
						1959	1	14570	3.9	575	1	14670	518	1	14868	525
915811	3	3	13457	3.6	483	1958	1	12220	4.1	505	1	13170	470	1	12851	458
						1959	2	14075	3.4	472	2	13400	466	2	13505	484
916471	34	74	11318	3.7	418	1952	5	11816	4.0	466	5	13106	477			
						1953	10	11619	3.8	443	10	11774	437	4	12658	446
						1954	15	10855	3.9	419	14	11699	422	12	11385	417
						1955	20	11417	3.7	414	20	11446	416	20	11692	431
						1956	13	11858	3.6	422	13	11807	422	13	11693	426
						1957	8	12098	3.6	441	8	11750	436	8	11802	444
						1958	2	10535	3.7	386	2	12180	439	2	11881	440
						1959	1	12310	3.6	443	1	11520	450	1	13865	501
919608	1	1	12230	3.3	409	1957	1	12230	3.3	409	1	11490	430	1	13483	477
920541	1	1	7650	3.9	297	1959	1	7650	3.9	297	1	10880	402	1	11020	412
921070	6	7	12821	3.5	444	1959	2	12675	3.4	432	2	12595	459	2	14099	514
						1960	5	13130	3.5	454	5	12502	448	1	14682	559
921321	21	51	11520	3.6	411	1948	1	11490	3.2	364						
						1949	1	16350	3.1	501	1	10730	413			
						1951	2	12100	3.9	456	1	10700	465			
						1952	6	11892	3.8	447	4	12180	491			
						1953	14	11410	3.6	411	13	11089	401	10	11470	403
						1954	10	12906	3.5	446	10	11407	423	7	11308	411
						1955	10	12289	3.5	426	10	11334	408	7	11285	408
						1956	7	11756	3.5	406	7	11600	417	6	11174	404
921322	38	134	10822	3.7	390	1948	1	13260	3.3	437						
						1949	4	12675	3.7	464	3	13533	466			
						1950	7	11854	3.7	438	5	13492	492			
						1951	11	10678	3.7	390	10	11887	433			
						1952	23	11460	3.6	412	20	11847	427			
						1953	30	10730	3.7	388	29	11392	410	24	11370	409
						1954	21	11770	3.6	428	21	11544	414	20	11825	425
						1955	17	12078	3.5	424	17	12535	451	15	11564	413
						1956	11	11601	3.7	428	11	12205	442	10	12141	430
						1957	7	10961	3.6	387	7	11824	428	7	12272	444
						1958	1	13440	3.7	496	1	13060	484	1	13963	517
						1960	1	12950	4.0	520	1	12660	494			
921324	17	55	11610	3.5	410	1948	1	9660	3.3	322						
						1949	9	12526	3.5	437	3	12617	428			
						1950	12	12027	3.5	423	2	9400	330			
						1951	12	11776	3.6	420	4	11075	391			
						1952	7	12610	3.6	447	3	10413	361			
						1953	4	10430	3.5	368	4	10220	361	2	9881	342
						1954	3	10840	3.6	392	3	10343	377	2	10737	382
						1955	4	10616	3.6	372	4	10213	372	4	10505	382
						1956	1	11050	3.6	401	1	11190	404	1	11434	425
						1957	2	10705	3.5	371	1	11500	415	1	11238	424
921325	3	10	12198	3.4	416	1949	2	10675	3.6	383	1	13190	502			
						1950	2	11990	3.4	401	1	11650	397			
						1951	1	9160	3.6	334	1	12270	403			
						1952	2	12345	3.5	424	2	11955	446			
						1953	2	12910	3.4	440	2	11550	445	2	11837	453
						1954	1	13790	2.9	400	1	12260	432	1	12154	465
922420	65	114	11721	3.8	441	1953	5	10720	3.6	389	4	10853	402	4	11552	412
						1954	16	11306	3.6	426	15	11739	428	14	12157	441
						1955	32	12193	3.8	460	31	11933	434	28	11405	415
						1956	22	11774	3.6	442	20	11534	406	17	11819	428
						1957	18	12503	3.8	467	15	11062	407	15	11766	426
						1958	13	13170	3.9	515	11	12573	465	8	11508	481
						1959	6	14207	3.7	521	5	14332	519	6	12172	523



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	
						1960	HOLSTEIN										
922908	2	2	11675	3.8	436	1960	2	13245	3.6	483	2	11960	429	1	13734	476	
						1954	1	11610	3.8	442	1	10140	377	1	9330	352	
						1957	1	11740	3.7	429	1	10410	375	1	11750	427	
923209	4	5	10444	3.9	400	1953	1	9730	4.1	396	1	13630	489	1	14105	492	
						1954	1	8830	3.7	325	1	9900	351	1	10638	373	
						1955	2	11440	3.8	431	1	12700	462	1	13538	496	
						1956	1	12110	3.8	461	1	15060	527	1	14453	510	
						1952	1	16450	3.6	596	2	14325	484	2	12927	435	
923231	6	19	12713	3.6	449	1953	2	15465	3.4	514							
						1954	4	12438	3.7	453							
						1955	5	12378	3.6	448							
						1956	4	12328	3.6	440							
						1957	2	12605	3.4	429							
						1958	1	14710	3.0	439							
						1949	1	11980	3.9	468	1	12710	469	1	14105	492	
						1950	2	14760	3.5	506							
923750	2	11	12944	3.7	481	1951	1	14760	3.4	505							
						1952	3	12050	3.9	472							
						1953	2	13525	3.9	525							
						1954	1	9920	3.6	358							
						1955	1	13190	3.5	462							
						1953	2	10470	3.6	396	2	10660	381	2	10639	372	
						1954	5	11186	3.4	382							
						1955	5	10860	3.9	423							
924257	14	21	11903	3.8	455	1956	4	11180	3.8	425							
						1957	1	12530	3.9	486							
						1958	1	16170	3.7	598							
						1959	3	14103	3.9	554							
						1956	1	9660	4.0	588	1	8140	302	1	6889	246	
						1958	1	9990	4.1	410							
						1953	2	10470	3.6	396							
925396	1	2	9825	4.1	399	1954	5	11186	3.4	382							
						1955	5	10860	3.9	423							
						1956	4	11180	3.8	425							
						1957	1	12530	3.9	486							
						1958	1	16170	3.7	598							
						1959	3	14103	3.9	554							
						1956	1	9660	4.0	588	1	8140	302	1	6889	246	
925549	67	122	10466	3.8	398	1958	1	9990	4.1	410							
						1954	16	10586	3.9	403							
						1955	32	11502	3.8	437							
						1956	32	10778	3.8	412							
						1957	24	10245	3.8	386							
						1958	15	10454	3.6	399							
						1959	3	11010	3.7	406							
927863	286	676	11484	3.6	410	1951	1	13480	3.8	518	84	11887	430	107	11524	413	
						1952	121	11466	3.6	414							
						1953	164	11789	3.6	427							
						1954	142	11717	3.6	416							
						1955	115	11945	3.6	426							
						1956	74	11874	3.5	417	72	11985	428	61	12261	440	
						1957	35	12425	3.5	433							
						1958	17	12124	3.5	422							
						1959	6	11458	3.6	404							
						1960	1	12740	3.8	488							
						1958	2	15630	4.1	636	1	12380	514	2	7113	474	
						1959	4	16028	3.9	617							
						1960	6	15752	3.6	563							
						1949	1	7820	4.0	316							
						1954	2	8535	3.7	310	1	13750	489	1	13385	484	
930172	1	1	7820	4.0	316	1955	3	9273	3.4	316							
						1956	3	15520	3.4	532							
						1957	5	14568	3.6	522							
						1958	16	16331	3.5	570							
						1959	5	15768	3.2	514							
						1955	2	8460	3.4	286	2	10955	386	1	9843	342	
						1956	16	11414	3.6	411							
932078	20	34	13916	3.5	486	1957	17	10741	3.6	383							
						1958	23	11300	3.6	400							
						1959	27	12078	3.6	435							
						1960	3	8803	3.6	310							
						1954	2	8535	3.7	310	1	13750	489	1	13385	484	
						1955	3	9273	3.4	316							
						1956	3	15520	3.4	532							



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
						1959	1	15160	3.5	535	1	14220	529		1	14464	514
939182	136	251	12238	3.4	417	1952	1	10440	3.5	565	1	11030	373				
						1953	21	11465	3.5	405	20	11129	398		9	11505	397
						1954	33	10955	3.6	500	31	11326	406		24	10996	395
						1955	54	12809	3.4	438	54	12069	432		49	11745	417
						1956	55	12060	3.4	412	54	11611	422		47	11649	417
						1957	30	12323	3.6	433	24	11975	432		24	12310	444
						1958	29	13660	3.4	468	20	14106	505		27	10590	478
						1959	24	14832	3.3	480	16	14372	502		20	10076	497
						1960	4	12570	3.3	408	4	13498	483		2	12699	461
						939595	1	1	8960	4.4	394	1952	1	8960	4.4	394	
941567	1	1	12480	3.0	375	1955	1	12480	3.0	375	1	14250	531	1	12764	455	
941953	1	2	14130	3.4	474	1958	1	14000	3.3	462	1	14240	496	1	14573	499	
						1959	1	14260	3.4	486	1	13090	488	1	14464	514	
943293	1	1	12680	3.0	385	1956	1	12680	3.0	385	1	13780	501	1	12263	447	
943749	11	17	13116	3.7	491	1957	3	12987	3.0	474	3	10593	383	2	11974	425	
						1958	5	13040	4.0	523	5	12590	483	4	12857	468	
						1959	8	13249	3.6	479	7	13616	514	8	12442	504	
						1960	1	13980	3.5	483	1	12590	437				
943799	1	3	11710	3.6	426	1955	1	13660	3.5	484	1	11560	421	1	12066	422	
						1956	1	11230	3.9	442	1	12610	488	1	12055	432	
						1957	1	10240	3.4	351	1	11180	397	1	12273	460	
944770	172	342	12179	3.4	411	1954	54	12046	3.4	404	54	11517	412	42	11473	417	
						1955	102	12680	3.4	431	98	12235	438	87	11863	423	
						1956	85	11787	3.4	403	82	11951	429	74	12215	433	
						1957	53	11682	3.4	403	50	11866	419	48	12092	432	
						1958	25	13572	3.4	456	24	13087	460	22	12443	437	
						1959	21	13167	3.5	437	20	12955	453	20	12812	467	
						1960	2	11870	3.4	409	2	11045	373	2	12355	430	
944771	50	128	11720	3.6	415	1952	1	12550	3.5	443	1	11210	402				
						1953	25	12073	3.5	424	23	11889	428	19	11398	409	
						1954	38	11644	3.6	411	37	11732	423	34	11800	432	
						1955	27	12099	3.6	427	26	12261	447	25	11581	420	
						1956	16	12345	3.6	442	15	12251	432	14	12501	450	
						1957	12	12729	3.6	456	11	11996	434	9	11474	420	
						1958	5	12282	3.4	415	5	11912	429	4	11551	422	
						1959	4	11613	3.5	403	3	11900	446	4	9014	424	
944849	11	20	11012	3.6	399	1954	4	9398	3.7	354	4	10705	380	3	11096	401	
						1955	7	10690	3.6	379	7	11809	425	3	10969	411	
						1956	3	13840	3.6	506	3	10897	404	3	11007	395	
						1957	3	12077	3.6	437	3	12183	455	3	12183	447	
						1958	1	14550	3.4	500	1	11230	396	1	12077	447	
						1959	1	11650	3.6	437	1	10850	404	1	12688	470	
						1960	1	11240	3.6	407	1	12540	445				
945462	1	1	8320	3.3	277	1956	1	8320	3.3	277	1	14060	500	1	14791	536	
948424	64	152	10716	3.6	386	1950	1	13760	3.5	476	1	13040	429				
						1951	4	9723	3.7	355	3	11867	412				
						1952	9	11066	3.6	398	8	12069	421				
						1953	24	11567	3.6	417	23	11698	415	17	11463	408	
						1954	31	10762	3.5	380	31	11214	393	27	11080	393	
						1955	32	11070	3.7	407	31	11507	413	27	10952	391	
						1956	25	11088	3.6	393	25	11294	406	19	11053	390	
						1957	16	9804	3.6	348	16	10791	387	15	11265	406	
						1958	7	10321	3.5	359	7	11929	434	7	11461	403	
						1959	3	10983	3.5	379	3	12787	457	3	13196	470	
948425	100	210	11854	3.5	419	1953	21	11453	3.6	408	20	11600	419	15	11241	411	
						1954	36	11735	3.6	419	36	11524	416	31	11711	422	
						1955	38	11799	3.5	417	35	11734	417	31	11209	400	
						1956	40	12342	3.5	438	38	12417	441	34	12024	437	
						1957	29	12686	3.5	448	28	12262	444	25	11783	422	
						1958	25	13152	3.5	458	22	12774	464	20	11734	451	
						1959	19	12415	3.5	430	16	12595	462	19	11046	463	
						1960	2	10510	3.5	363	2	11235	424	1	11031	419	
948558	1	2	14245	3.5	489	1956	1	14460	3.6	514	1	12990	462	1	13320	483	
						1957	1	14030	3.3	463							
949159	11	11	12835	3.4	434	1957	1	7340	3.7	270	1	12220	463	1	12834	456	
						1958	4	13813	3.2	432	3	12737	453	3	11184	386	
						1959	5	12642	3.5	423	5	12424	462	5	11901	437	
						1960	1	15390	4.5	660	1	13870	491	1	13789	493	
950648	1	3	11453	3.5	404	1957	1	9980	3.6	362	1	12810	460	1	11957	437	
						1958	1	12730	3.6	454	1	12670	458	1	12295	444	
						1960	1	11650	3.4	396	1	12590	434	1	12273	456	
950707	49	60	11335	3.8	425	1955	10	11460	3.8	435	10	12370	464	7	11792	451	
						1956	22	11517	3.6	429	22	12529	456	15	12601	458	

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
951104	125	209	10834	3.7	397	1958	23	11924	3.7	446	17	12581	462	20	10717	465						
						1959	8	11210	3.8	427	7	13183	484	7	13174	483						
						1960	2	11800	3.9	457	2	11600	431	1	11772	465						
						1954	15	11657	3.7	425	14	12131	435	13	11485	415						
						1955	61	11092	3.7	409	61	11781	429	56	11360	412						
						1956	59	10542	3.6	383	59	11648	425	55	11566	427						
						1957	41	10881	3.7	400	40	11919	437	39	11652	438						
						1958	19	11726	3.6	422	16	12682	451	15	12420	442						
						1959	12	11653	3.6	420	10	12314	444	11	11522	444						
1960	2	12425	3.8	471	2	12305	438															
952029	9	17	11660	3.8	442	1957	2	10420	4.2	436	2	13045	464	2	12203	441						
						1958	8	13864	3.8	516	5	11900	439	8	9524	465						
						1959	7	11906	3.9	460	6	12223	461	7	11218	474						
952437	74	117	11054	3.8	411	1953	2	7040	4.5	312	2	10610	400	2	10693	406						
						1954	11	9602	3.8	363	11	10029	360	10	11247	408						
						1955	19	10729	3.9	419	19	11266	415	13	10477	390						
						1956	37	10791	3.8	405	37	11852	427	28	11253	408						
						1957	31	11769	3.7	429	30	11745	423	25	11064	403						
						1958	5	12740	4.0	503	5	12344	444	5	11842	421						
						1959	11	12583	3.6	450	9	13474	489	9	10508	464						
						1960	1	9780	4.1	403	1	10550	412	1	11238	429						
						952603	2	4	15977	3.7	586	1955	1	14990	4.0	593	1	11260	437	1	11805	468
												1956	1	16050	3.3	526	1	12080	443			
												1958	1	16800	3.6	599	1	10580	372	1	11619	415
1959	1	18040	3.4	613	1							12400	444	1	11718	411						
954677	1	1	17510	3.6	634	1959	1	17510	3.6	634	1	13630	503	1	13963	518						
955370	62	124	12000	3.6	433	1949	2	12835	4.0	500	2	13200	499									
						1950	3	11970	3.7	438	2	12045	468									
						1951	3	12427	3.8	467	2	11975	445									
						1952	9	13522	3.6	489	7	11737	432									
						1953	13	13079	3.6	468	13	11990	440	12	12435	437						
						1954	21	12050	3.6	428	21	11953	439	17	11873	423						
						1955	19	11720	3.7	434	19	11569	423	18	11510	421						
						1956	16	12187	3.6	439	16	11839	419	14	11827	433						
						1957	13	11785	3.6	419	13	12046	424	12	12076	422						
						1958	14	12781	3.5	445	14	11893	420	11	11952	423						
						1959	10	13153	3.6	482	10	12044	459	10	12423	461						
						1960	1	11910	3.8	456	1	10940	416									
						955493	47	70	12301	3.8	460	1955	4	11353	3.7	420	4	13658	510	4	12696	463
1956	8	12865	3.7	468	8							12481	450	6	13104	476						
1957	13	11903	3.7	434	13							12428	437	12	12729	452						
1958	22	12679	3.8	482	20							12153	443	19	11769	424						
1959	18	12838	3.8	491	17							12608	458	18	12369	482						
1960	5	11046	3.6	397	3							13087	449									
956101	2	5	13241	3.5	458	1950	1	12500	3.8	469												
						1951	1	13770	3.9	542												
						1953	1	14450	3.4	485	1	12040	429									
						1954	1	11750	2.9	340	1	13040	422									
						1956	1	13840	2.9	404	1	12520	386	1	12633	426						
956307	4	7	14333	3.5	492	1956	4	12638	3.5	444												
						1957	3	15987	3.4	530												
959159	53	114	10151	3.8	379	1949	1	6410	3.6	230												
						1950	4	9140	3.9	351												
						1951	2	8055	3.7	297	1	11450	410									
						1952	20	10739	3.8	409	14	10321	390									
						1953	25	9830	3.9	379	22	11070	406	18	10631	383						
						1954	26	10371	3.8	393	23	10983	399	21	11032	400						
						1955	16	10564	3.8	395	16	11148	413	16	10617	392						
						1956	7	11186	3.5	367	7	10936	377	7	10938	377						
						1957	6	11933	3.5	410	6	11647	422	5	11534	401						
						1958	6	11312	3.7	412	5	12018	439	5	11297	421						
						1959	1	11826	3.7	433	1	10340	378	1	11630	424						
959160	1	3	8173	3.8	304	1953	1	8890	3.4	299												
						1954	1	8150	3.9	316												
						1955	1	7480	4.0	296												
964841	132	292	11220	3.7	410	1949	5	12706	3.2	410	1	14040	565									
						1950	9	11376	3.4	387	2	11265	425									
						1951	10	10937	3.5	385	3	11937	444									
						1952	32	11871	3.7	436	20	12205	445									
						1953	37	10866	3.7	400	33	10302	370	28	10553	377						
						1954	54	10963	3.7	403	54	11068	390	42	10796	386						
						1955	68	11320	3.7	415	67	11245	401	46	10784	381						
						1956	44	11996	3.7	441	43	11648	420	36	11483	413						
						1957	25	10980	3.6	394	25	11390	408	24	11155	401						
						1958	5	12990	3.5	464	4	10715	385	5	12167	435						
						1959	3	12993	3.4	454	3	10667	382	3	11136	402						
						965039	16	28	11233	4.0	450	1955	9	11428	4.0	451	9	12522	467	8	11520	427
												1956	10	10715	4.1	437	10	11587	434	9	11244	416
1957	5	10368	4.3	449	5							11724	440	5	11735	443						
1958	3	11610	4.0	471	3							13107	481	3	10955	396						

TABLE 15.—DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY BREED,  
BY YEAR OF FRESHENING—RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						1959	HOLSTEIN 1	11140	3.7	412	1	12340	435	1	12481	445
967010	1	1	11260	4.2	475	1958	1	11260	4.2	475						
968544	22	24	11153	3.9	432	1957	4	8796	4.1	366	4	11313	436	3	10195	397
						1958	10	12156	3.9	463	8	12635	454	10	11159	445
						1959	9	12086	3.8	455	9	12643	467	8	12858	472
						1960	1	10790	3.6	385	1	14100	525			
968816	45	61	10719	3.6	378	1955	1	10870	3.5	377						
						1956	1	9830	3.5	342	1	12270	434	1	12971	470
						1957	31	10160	3.6	358	29	11584	419	25	11666	423
						1958	22	11916	3.5	421	20	12697	461	21	10926	431
1959	6	12260	3.6	437	6	13497	500	5	13536	485						
969667	11	17	12910	3.8	492	1957	4	11965	3.8	453	3	12077	460	3	12604	468
						1958	7	13471	3.8	513	7	13819	503	7	12917	474
						1959	5	13374	3.8	516	5	14642	514	4	13718	508
						1960	1	10070	3.8	383	1	12790	467			
969669	10	16	13464	3.7	507	1956	1	14610	3.5	507	1	12290	460	1	12089	433
						1957	1	12610	3.7	470	1	11350	423	1	12884	456
						1958	7	12703	3.7	469	7	12463	450	7	11714	420
						1959	5	15236	3.8	588	4	13490	513	5	11292	509
1960	2	12130	3.9	471	2	13940	543	1	14061	499						
969671	12	20	11324	3.8	422	1954	3	11673	3.9	447	3	10247	396	3	10395	390
						1955	7	12220	3.7	447	7	11367	416	7	11506	427
						1956	5	12942	3.5	445	5	12904	462	5	12949	457
						1957	1	12700	3.9	489	1	12640	436	1	11619	429
						1958	3	10497	3.9	411	3	11350	421	2	11483	472
						1959	1	8610	4.2	357	1	11640	451	1	12448	474
969897	508	1187	11756	3.5	415	1949	1	15640	3.1	487	1	11570	396			
						1950	28	11885	3.7	434	16	11719	420			
						1951	75	11954	3.6	433	55	11822	423			
						1952	91	11847	3.6	426	80	12022	433			
						1953	137	11976	3.6	428	132	11855	428	93	11449	411
						1954	169	11498	3.5	407	161	11520	411	136	11382	408
						1955	231	12198	3.6	432	227	12152	433	179	11714	417
						1956	215	11687	3.5	410	210	11829	420	172	11973	425
						1957	131	11466	3.5	399	126	11062	419	110	11944	425
						1958	64	12273	3.5	425	57	12435	439	54	11970	432
						1959	43	13390	3.5	468	40	12502	453	40	12200	454
						1960	2	10635	3.7	390	2	11260	432	1	10464	373
969938	493	918	11557	3.5	401	1953	91	11456	3.6	407	82	12252	441	58	12080	432
						1954	175	11370	3.5	397	161	11688	415	133	11728	423
						1955	238	11782	3.5	411	227	12147	434	188	11700	417
						1956	202	11752	3.5	404	196	11963	427	166	12314	438
						1957	106	11808	3.5	411	105	12010	428	95	12049	429
						1958	61	12450	3.4	425	60	12774	454	55	11700	419
						1959	41	12295	3.5	426	39	12563	451	39	12306	461
						1960	4	11850	3.4	398	4	11995	421	1	10584	393
971338	2	10	10537	3.7	386	1953	2	11965	3.5	420	2	9515	338	2	9271	336
						1954	3	9163	4.0	362	3	9993	356	3	9919	352
						1956	2	10270	3.7	374	2	10460	366	2	9848	368
						1957	2	11580	3.6	411	2	10650	380	2	11287	405
1958	1	10370	3.6	368	1	10710	366									
973624	1	2	13010	3.7	482	1956	1	12130	3.8	458	1	13080	483	1	11118	414
						1957	1	13890	3.6	505	1	13550	486	1	12502	459
975137	4	5	12966	3.7	479	1958	2	10615	3.9	413	2	14210	499	2	14132	502
						1959	3	14697	3.7	544	3	14443	532	3	14174	520
975683	12	19	11757	3.8	442	1956	1	17150	3.4	587	1	15010	559	1	13821	504
						1957	4	12255	3.9	484	4	11065	434	4	13216	484
						1958	5	11470	3.7	427	5	13520	497	5	12496	452
						1959	9	12953	3.8	485	9	12418	442	9	13172	469
978750	32	46	11639	3.7	428	1954	1	11260	3.7	412	1	12440	449	1	10769	399
						1956	5	11142	3.9	443	5	12866	479	4	13186	480
						1957	15	11358	3.7	416	15	13015	460	13	13766	493
						1958	14	11851	3.6	430	14	13247	466	13	12514	450
						1959	10	12217	3.6	435	9	12970	455	10	13493	476
						1960	1	16670	4.3	717	1	15140	604			
981308	52	131	12169	3.7	442	1950	3	12443	3.7	456						
						1951	4	14625	3.5	510						
						1952	6	13050	3.5	450						
						1953	10	13229	3.5	462	3	12870	468			
						1954	6	11242	3.6	400	1	12750	470	1	13756	491
						1955	19	12522	3.6	445	13	11878	436	11	11904	430
						1956	27	11805	3.6	422	23	12263	458	20	12105	446
						1957	20	11938	3.6	429	18	12147	462	18	12173	450
						1958	23	12810	3.7	476	19	12705	467	21	10934	471
						1959	10	13237	3.8	500	10	12340	466	10	12999	486
						1960	3	13403	3.9	511	3	13010	493			
						981711	1	1	5950	3.9	232	1957	1	5950	3.9	232
982049	9	15	11825	4.0	468	1955	3	12177	4.2	493	3	14203	528	3	12499	457
						1956	5	12004	4.1	480	5	13352	471	4	12080	426
						1957	4	11720	3.7	425	3	12593	446	3	13196	463

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
						HOLSTEIN																
982050	133	228	10665	3.7	394	1958	1	15670	4.3	669	1	13600	513	1	14911	556						
						1959	2	14965	4.4	646	2	15460	581	2	15064	569						
						1953	10	9967	3.8	374	9	11364	408	5	11831	439						
						1954	34	9855	3.8	366	32	10859	394	26	10932	397						
						1955	51	10967	3.6	398	47	11535	417	42	11425	415						
						1956	56	10742	3.7	398	53	11736	424	36	11283	412						
						1957	44	10866	3.7	400	41	11427	416	36	11797	430						
						1958	23	11909	3.7	443	19	12681	465	18	12183	441						
						1959	10	10954	3.8	413	10	11172	410	10	12257	455						
						1953	1	10630	3.9	412	1	10640	448	1	10224	417						
982292	3	7	11733	3.8	437	1954	1	9760	4.0	390	2	12745	473	1	12764	447						
						1955	2	12075	3.6	434	2	13715	537	1	12088	447						
						1956	2	13465	3.8	499	1	13680	516	1	14301	508						
						1957	1	12190	3.4	420												
						1952	5	11468	4.0	450	4	12433	478	4	12579	440						
982552	13	35	11318	4.0	447	1953	5	11180	3.6	401	4	12023	435	9	11315	413						
						1954	9	10157	4.2	426	8	10819	396	5	11870	435						
						1955	6	11937	4.1	490	6	11292	414	3	12288	459						
						1956	3	14097	3.9	547	3	12607	481	3	12898	482						
						1957	3	12410	4.0	495	3	12530	470	2	14432	549						
						1958	3	11860	4.0	471	3	13457	529	1	10213	552						
						1959	1	11810	4.1	487	1	9940	529									
						1954	2	11660	3.7	428	20	12264	432	15	11627	412						
						1955	27	11806	3.6	423	34	11806	422	30	11978	430						
						1956	44	11699	3.5	411	27	11637	413	26	12066	432						
						1957	32	11445	3.5	404	9	12439	439	7	11336	398						
983075	72	122	11507	3.5	406	1958	11	12661	3.6	451	6	12802	451	6	13560	473						
						1959	6	13213	3.4	453												
						1950	3	13277	3.6	483												
						1951	3	12597	3.8	471												
						1952	5	13124	3.5	460												
						1953	4	12403	3.4	413												
						1954	7	11974	3.7	440	3	13420	504	3	11020	410						
						1955	4	11803	3.8	445	2	11635	415	1	12164	458						
						1956	1	9820	3.8	369	1	11940	403									
						1957	5	11064	3.6	405	4	10830	410	3	10926	419						
984717	14	38	11891	3.7	437	1958	5	11654	3.7	423	4	14043	525	5	11074	503						
						1959	1	11540	3.5	403	1	14870	564	1	14639	557						
						1955	19	10815	3.7	398	17	11948	456	13	12155	431						
						1956	54	11826	3.8	442	50	12010	427	39	11823	428						
						1957	66	11466	3.7	424	61	12569	451	56	12255	440						
						1958	64	12701	3.8	484	56	12760	459	52	11550	448						
						1959	36	12775	3.8	485	34	12873	470	33	12914	485						
						1960	4	10993	3.8	417	4	12535	457	1	10889	393						
						1951	3	13523	3.6	482	2	14525	535									
						1952	7	12143	3.5	430	6	12032	430									
						1953	32	11585	3.6	424	31	11827	428	19	11535	420						
984801	233	425	12179	3.6	432	1954	56	11587	3.6	415	55	11589	418	55	11853	429						
						1955	75	11942	3.6	427	74	12157	442	69	12153	439						
						1956	84	11541	3.6	413	81	11658	420	68	11566	420						
						1957	52	11784	3.5	409	50	12074	434	43	12014	436						
						1958	52	13034	3.6	461	49	13120	472	47	12590	453						
						1959	58	13737	3.6	487	54	13412	489	54	12729	489						
						1960	6	12558	3.6	449	6	12088	448	1	11031	419						
						1955	1	16460	3.3	545	1	13060	425	1	12175	398						
						1956	1	11280	4.3	484	1	11120	475									
						1957	2	12000	4.1	488	2	14500	500	1	12350	402						
						985034	19	43	14125	3.5	487	1951	4	15225	3.5	527						
1952	7	14971	3.5	519																		
1953	7	14829	3.4	510																		
1954	10	14226	3.4	481																		
1955	10	14881	3.4	503																		
1956	4	15053	3.6	547																		
1957	1	16190	3.1	494																		
1957	1	12350	3.5	438	1							15690	512	1	12829	436						
986239	2	3	14650	3.6	515	1958	1	16110	3.3	526	1	14370	506	1	14017	483						
						1959	1	14030	4.1	568	1	12650	439	1	13549	436						
						1957	1	13350	3.7	496	1	13550	481	1	12502	459						
987497	1	1	13350	3.7	496	1957	1	13350	3.7	496	1	13550	481	1	12502	459						
989718	507	887	11794	3.6	418	1953	3	9710	3.7	359	2	11025	398									
						1954	85	11988	3.6	429	81	11691	415	66	11679	419						
						1955	179	12332	3.6	443	172	11994	429	146	11627	414						
						1956	246	11875	3.6	422	238	12000	425	206	12056	430						
						1957	166	11199	3.5	395	157	11819	418	138	12073	431						
						1958	111	12170	3.5	427	104	12730	453	99	12029	433						
						1959	86	12110	3.5	422	81	12886	464	77	12251	454						
						1960	11	10754	3.7	390	9	11964	431	4	10854	389						
						990861	38	66	11061	3.7	399	1953	3	8587	3.7	322	3	10623	366	1	9200	336
												1954	7	10134	3.7	370	7	10217	370	4	10625	399
												1955	17	11396	3.8	425	17	11338	408	13	10791	388
1956	16	11618	3.7	423	15							11292	405	10	11243	401						



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1957	12	11179	3.6	395	10	10729	383	8	10464	377
						1958	7	12006	3.4	405	7	11496	402	7	11285	402
						1959	3	10470	3.7	391	3	12260	447	3	12306	445
						1960	1	13170	2.9	364	1	11390	368	1	12066	393
990952	270	349	12547	3.5	439	1956	1	10320	3.8	389						
						1957	48	11764	3.6	418	46	11674	413	32	12325	445
						1958	116	12830	3.5	448	110	12912	458	101	11703	439
						1959	144	12984	3.5	456	129	12923	464	139	11661	464
						1960	40	13292	3.5	458	36	13001	464	12	13122	462
991146	4	8	11319	3.6	402	1952	2	13245	3.5	464	1	12450	467			
						1953	3	11380	3.6	402	2	12595	431	2	12143	426
						1955	1	13840	3.6	505	1	11400	405	1	11489	407
						1957	1	12160	3.6	435	1	14200	494			
						1958	1	10230	3.7	375	1	14650	534	1	13571	464
992848	4	6	10421	3.9	394	1955	2	10380	4.0	390	2	13395	503	2	12611	488
						1956	1	8440	3.7	308	1	10360	388	1	9407	348
						1957	3	11447	3.7	420	3	11163	419	3	10947	417
992858	271	508	12475	3.7	466	1953	11	12182	3.8	463	10	12030	426	6	11069	395
						1954	55	11650	3.7	452	53	11729	419	48	11657	420
						1955	75	11998	3.7	445	73	12168	438	68	11536	416
						1956	86	12914	3.7	479	83	12360	444	77	12255	442
						1957	80	12396	3.7	463	75	12153	443	68	12275	447
						1958	110	13159	3.7	491	101	12932	470	87	12247	455
						1959	76	13135	3.8	495	72	13059	475	72	12938	479
						1960	15	11525	3.8	437	14	11511	422	2	12873	464
993099	6	11	10166	3.9	392	1953	1	11110	3.7	408						
						1954	5	10006	3.8	378	1	12080	435	1	12677	452
						1955	4	10165	3.9	392	1	8450	345	1	10268	368
						1956	1	11740	4.0	471	1	11890	449	1	9908	360
993764	1	1	12160	3.9	475	1956	1	12160	3.9	475	1	8440	399	1	9112	446
995123	3	4	12560	3.8	474	1955	1	10220	3.7	360	1	10850	398	1	10573	380
						1956	1	16500	3.8	631	1	12870	475	1	11118	414
						1957	2	12330	3.8	468	2	13595	478	2	12502	459
997481	7	10	12891	3.4	439	1957	1	16110	3.4	554	1	12940	464	1	14759	547
						1958	5	12428	3.4	420	5	12906	456	4	12350	434
						1959	4	13193	3.4	442	4	11268	397	4	12048	428
999656	48	109	13162	3.5	463	1950	1	15930	3.3	518						
						1951	1	14750	3.4	503						
						1952	5	14778	3.5	507						
						1953	28	13360	3.6	473	16	12189	441	10	11516	404
						1954	18	12991	3.5	460	15	12108	434	9	11611	418
						1955	21	14212	3.5	496	18	12404	435	17	12275	434
						1956	13	13834	3.7	512	11	12580	451	11	12773	456
						1957	8	13454	3.4	451	7	12446	436	6	12969	453
						1958	6	14573	3.5	511	5	13292	475	5	13342	480
						1959	6	12640	3.5	450	6	12808	453	4	12838	463
						1960	2	13035	3.6	473	2	11175	398	2	11761	422
1000390	43	69	14276	3.8	540	1955	1	10680	3.8	401						
						1956	1	13930	3.8	525	1	12120	410	1	12306	420
						1957	5	14806	3.9	569	5	13766	496	3	13095	483
						1958	35	14282	3.8	543	30	13224	482	30	11372	475
						1959	22	13968	3.8	528	19	13240	481	21	11432	480
						1960	5	15330	3.7	564	5	12964	481	4	13475	499
1001512	7	8	9747	4.0	381	1956	1	13150	4.4	572	1	13250	504	1	11489	416
						1957	3	7160	4.1	292	3	10867	375	3	10097	351
						1958	1	10540	4.0	418	1	12270	494	1	11827	443
						1959	2	13130	3.4	437	2	13725	530	2	13647	512
						1960	1	7900	4.4	348	1	9510	325			
1001768	1	1	10150	3.4	342	1959	1	10150	3.4	342	1	10900	400	1	12197	440
1003598	3	4	12710	3.6	452	1954	1	12260	3.5	428	1	13010	471			
						1956	1	11910	4.0	477				1	14791	536
						1958	1	13870	3.1	425	1	12230	445	1	11619	432
						1959	1	14050	3.4	475	1	13200	494	1	14246	538
1003960	141	197	12048	3.6	438	1955	1	9810	4.0	392						
						1956	41	11237	3.7	411	35	12409	441	28	12240	436
						1957	55	11376	3.6	411	51	11741	422	39	12097	434
						1958	61	13246	3.7	483	56	12754	456	57	11690	445
						1959	34	13301	3.6	480	31	13090	474	31	12002	480
						1960	5	11812	3.7	444	5	12646	444	1	8687	307
1003963	1	1	12110	3.7	450	1957	1	12110	3.7	450	1	11050	377			
1003988	6	17	9922	4.0	390	1951	1	11170	3.8	427	1	11520	384			
						1952	4	10480	4.0	420	4	12358	438			
						1953	5	9432	3.9	370	5	10718	374	3	10457	367
						1954	4	11070	4.1	449	4	11325	410	4	10437	379
						1955	1	9820	3.5	343	1	10710	376	1	12546	459



RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
							HOLSTEIN										
						1956	1	9060	3.6	327		1	11160	405	1	11576	404
						1957	1	9720	4.0	384		1	11220	405	1	11619	429
1004144	1	1	12820	3.3	418	1953	1	12820	3.3	418		1	13480	470	1	12208	426
1004232	37	51	14099	3.7	511	1958	17	14336	3.6	512	13	13864	486	17	11717	467	
						1959	28	14465	3.6	521	22	13886	484	26	11361	493	
						1960	6	14228	3.7	523	6	14635	527	5	14035	510	
1004966	119	162	12557	3.4	423	1956	19	11807	3.3	396	16	11864	414	16	12089	422	
						1957	38	11521	3.4	389	36	11998	427	30	12343	442	
						1958	48	13183	3.4	444	39	12788	462	40	11592	447	
						1959	49	13740	3.4	468	47	12909	466	45	12438	455	
						1960	8	11354	3.3	383	7	14139	516	5	14076	502	
1005575	16	20	12634	3.6	446	1958	5	12534	3.5	439	5	13702	508	5	13205	488	
						1959	13	11997	3.7	437	12	12851	485	12	12373	496	
						1960	2	13030	3.4	443	2	13345	548				
1006219	3	6	12747	3.6	458	1957	2	14130	3.6	503	2	12650	450	2	13004	477	
						1958	2	12200	3.7	445	2	12115	435	2	12557	495	
						1959	2	13035	3.4	448	2	13295	493	2	13108	477	
1007029	33	56	10948	3.6	389	1954	2	11060	3.6	396							
						1955	14	10756	3.6	386	11	11104	402	10	11319	404	
						1956	14	11070	3.6	388	13	12005	433	11	10899	395	
						1957	9	11701	3.5	412	9	12388	458	8	11908	435	
						1958	9	11859	3.6	418	8	12843	458	8	11437	473	
						1959	6	12183	3.3	407	6	13247	470	6	13369	480	
						1960	2	13995	3.6	494	1	13150	422	1	13832	513	
1008302	3	5	10883	3.6	394	1952	1	6490	3.4	222	1	6220	230				
						1953	1	10700	3.2	346	1	12460	403				
						1954	1	10690	3.7	395	1	12210	454	1	10671	382	
						1955	2	12200	3.8	459	2	12510	458	1	14802	525	
1008622	4	5	14144	3.7	518	1958	1	14140	2.9	415	1	13370	432	1	16165	505	
						1959	4	14470	3.8	536	4	12465	467	4	12045	457	
1008924	22	30	12174	3.5	420	1952	4	12450	3.5	439							
						1953	14	11704	3.4	398							
						1954	11	12457	3.5	435							
						1955	1	13070	3.5	452							
1010660	610	1075	13204	3.6	477	1953	44	13832	3.7	506	41	12060	439	26	12072	438	
						1954	71	12401	3.6	451	68	12267	443	65	11818	431	
						1955	116	13451	3.7	492	115	12377	454	105	12072	436	
						1956	194	13144	3.6	478	191	12318	449	180	12129	437	
						1957	195	12695	3.6	460	191	12147	444	178	12357	448	
						1958	228	13785	3.6	495	211	12984	470	193	12101	453	
						1959	202	13731	3.6	497	191	13019	473	192	12886	479	
						1960	25	13336	3.6	476	24	12730	467	3	12473	441	
1011176	4	9	9799	3.6	348	1952	1	11660	3.8	442	1	10710	407				
						1953	3	9907	3.5	349	2	9500	358				
						1954	1	8780	3.6	319	1	10900	379	1	10148	366	
						1955	1	9920	3.5	348	1	10500	368	1	10344	371	
						1956	1	8420	3.6	300	1	11370	391	1	10235	364	
						1957	1	9510	3.4	320				1	10453	374	
						1958	1	8240	3.8	309	1	10530	411	1	9592	367	
1013415	2	2	12580	3.9	486	1958	2	12580	3.9	486	2	11965	419	2	12268	438	
1013716	1	2	10710	4.0	421	1958	1	10870	4.0	433	1	13790	481	1	11674	407	
						1960	1	10550	3.9	408	1	16760	652				
1013717	45	134	12279	3.5	426	1953	23	13235	3.5	467	23	12349	449	15	12975	477	
						1954	38	11899	3.5	411	38	11849	426	36	12099	436	
						1955	25	12416	3.4	425	24	12645	455	24	11986	435	
						1956	21	12781	3.4	440	21	12615	455	19	12746	454	
						1957	16	11828	3.6	421	16	12156	445	15	12964	466	
						1958	8	13415	3.7	494	8	14145	530	7	13145	482	
						1959	3	14993	3.7	555	3	12910	485	3	13287	492	
1016135	11	16	11491	3.5	398	1956	4	10178	3.5	358	4	10628	378	4	11363	410	
						1957	6	10875	3.5	383	4	11035	383	3	11456	397	
						1958	2	11575	3.4	393	1	13150	523	1	11968	426	
						1959	3	14497	3.3	482	2	12905	457	2	15195	528	
						1960	1	10260	3.4	348							
1016212	13	16	11882	3.8	455	1955	1	12460	3.6	446	1	10870	433	1	11173	431	
						1957	6	11047	4.0	438	6	11170	426	5	11515	433	
						1958	4	12813	3.7	472	4	12940	470	4	13113	464	
						1959	3	13273	3.8	507	3	13770	474	3	13694	465	
						1960	2	11610	3.9	447	2	12380	428	1	13592	481	
1016346	4	8	9299	3.7	339	1953	3	9933	3.8	377	2	9320	392	2	9429	367	
						1954	3	10197	3.7	373	3	9453	346	3	9182	337	
						1955	1	11780	3.5	418	1	10290	406	1	11107	420	
						1956	1	11090	3.4	383	1	10910	428	1	11260	424	
1018853	199	303	13727	3.5	480	1953	1	9330	4.6	427							
						1954	2	18385	3.0	707							
						1955	30	13900	3.5	482	27	12416	449	21	11624	420	
						1956	72	13717	3.5	477	68	12426	447	62	12258	438	
						1957	77	13785	3.5	483	75	12140	438	72	12185	439	
						1958	68	13693	3.5	477	59	12443	445	59	11395	446	
						1959	47	13744	3.6	486	43	12846	469	42	12423	474	

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. LB.	AV. FAT LB.	YEARLY HERE RECORDS NO.	AVERAGE MILK LB.	FAT LB.
						1960	HOLSTEIN									
							6	15190	3.6	541	6	13630	509	2	13716	500
1019538	4	7	12888	3.6	461	1955	1	12940	3.9	500	1	10540	399	1	10573	360
						1956	1	12710	3.8	484	1	13050	482	1	11118	414
						1957	1	11290	3.5	396	1	13630	484	1	12502	459
						1958	2	13620	3.2	438						
						1959	2	12830	3.7	470						
1020277	18	22	13694	3.8	512	1958	1	14940	3.3	491	1	14510	486			
						1959	19	13481	3.8	505	17	14004	518	18	13507	526
						1960	2	14660	3.6	525	2	14945	554	1	16110	608
1020914	13	22	12735	3.6	457	1957	3	13617	3.7	499	1	12110	448	3	13102	477
						1958	10	12550	3.7	467	5	14032	518	7	8667	513
						1959	9	12254	3.5	428	8	16400	610	9	12706	502
1021571	16	21	12496	3.8	473	1957	1	11340	3.8	432	1	10040	416	1	8524	374
						1958	7	12574	3.9	490	5	13558	509	6	11227	460
						1959	10	12355	3.7	457	10	12379	464	10	12285	458
						1960	3	11740	3.7	434	3	12190	449			
1022095	27	40	13507	3.7	497	1957	4	12838	3.9	497	4	10433	426	4	10974	415
						1958	19	13854	3.7	514	16	13323	489	18	11678	435
						1959	17	13951	3.7	521	17	13852	504	15	13835	506
1023039	45	69	11976	3.6	426	1956	7	12209	3.6	430	7	12446	448	5	12396	438
						1957	20	11608	3.5	402	19	12227	445	16	12455	454
						1958	22	12856	3.6	466	19	12500	470	22	11115	453
						1959	17	13213	3.6	468	15	11911	439	15	12193	448
						1960	3	13307	3.6	471	3	12790	471	2	14094	528
1024453	5	10	13126	3.7	485	1953	1	13240	3.9	516						
						1954	1	12420	3.7	460						
						1956	2	12155	3.7	445						
						1957	2	13600	3.5	464						
						1958	2	10685	3.8	397						
1024880	9	13	14045	3.6	500	1959	2	13040	4.0	518	1	11390	434	1	12608	473
						1955	1	13660	3.7	507	1	14110	496			
						1956	6	13038	3.6	471	6	13667	478	6	13320	483
						1957	3	11643	3.6	417	2	12980	467			
						1959	3	16237	3.6	647	2	16025	537	2	9036	554
1024958	21	36	10415	3.8	392	1955	14	10548	3.8	398	10	11253	416	7	10561	394
						1956	10	9852	3.8	371	9	10783	383	7	10850	388
						1957	9	11569	3.9	449	5	11950	435	6	10746	403
						1958	2	11990	3.7	449	2	12490	443	1	11107	396
						1959	1	13710	3.6	500	1	12550	457	1	12579	463
1025338	29	42	12056	3.6	434	1954	1	10260	3.7	383						
						1955	3	13170	3.6	470						
						1956	10	10987	3.6	387	6	11225	403	4	9960	372
						1957	18	12616	3.6	453	11	12199	430	7	12487	444
						1958	7	12874	3.5	451	7	12241	446	7	11138	402
						1959	2	15280	4.0	597	2	12965	486	2	13592	503
1028664	2	2	10380	4.1	421	1960	1	13650	3.5	476	1	11510	436	1	11979	434
						1959	2	10380	4.1	421	2	11700	430	2	12732	487
						1956	20	11591	3.8	436	17	12749	464	14	12209	445
						1957	49	12255	3.8	463	46	12564	452	45	12441	449
						1958	54	13152	3.7	487	50	12929	467	47	12281	462
1030195	118	174	12359	3.8	464	1959	44	12947	3.8	496	40	12951	479	42	12945	483
						1960	7	11253	3.6	428	7	12847	468	1	13712	495
						1959	1	11520	4.1	467	1	12570	507	1	12284	473
1030404	1	1	11520	4.1	467	1954	1	8970	3.7	329						
						1957	12	11071	3.7	412	12	12265	443	10	11742	436
						1958	38	13063	3.8	502	31	13449	488	35	11749	457
						1959	33	12937	3.7	484	31	13405	485	33	12634	489
						1960	6	12262	3.6	469	6	12692	475	1	14639	557
1033472	4	4	14013	3.5	491	1958	1	16070	3.5	561	1	12560	448	1	11619	415
						1959	3	13327	3.5	467	3	14330	493	1	14704	519
1035454	28	39	14948	3.7	544	1958	13	14013	3.6	509	11	13765	499	13	11716	496
						1959	19	16147	3.7	586	19	14237	526	17	14162	525
						1960	7	13759	3.9	526	7	11953	436	1	9603	441
1035507	43	66	12909	3.6	464	1952	3	15217	3.4	515						
						1953	6	15047	3.6	536						
						1954	2	10825	3.8	403						
						1955	2	14530	3.7	522						
						1956	4	12015	3.6	432	2	12645	496	2	12252	513
						1957	12	11846	3.7	435	10	12594	459	10	12568	460
						1958	12	13026	3.7	485	11	12684	459	10	11621	460
						1959	21	12760	3.6	459	17	13204	474	21	10715	461
						1960	4	12050	3.7	445	4	12295	433	3	12106	432
						1959	1	18020	3.4	618	1	15310	500	1	14007	468
1038509	2	2	16700	3.5	579	1960	1	15380	3.5	540	1	15310	500	1	13625	456
						1958	29	11712	3.8	437	24	12878	456	25	10738	437

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY MILK LB.	YEARLY FAT LB.	
HOLSTEIN																
						1959	54	12259	3.8	465	51	12951	467	52	12660	470
						1960	10	12263	3.7	456	10	12517	444	4	12225	456
1040535	1	1	17000	3.8	641	1960	1	17000	3.8	641	1	16370	594	1	14704	550
1043101	2	3	16990	3.6	607	1957	2	16405	3.5	566	2	15300	468	2	12502	459
						1959	1	18790	3.9	731	1	14760	542	1	13767	487
1043856	80	130	13160	3.6	477	1954	1	12320	4.0	437						
						1955	12	13474	3.6	479	3	12690	470	3	13280	479
						1956	20	13057	3.6	473	12	12055	429	9	11951	425
						1957	22	12235	3.5	429	18	12371	457	19	12495	445
						1958	38	13679	3.6	498	31	12750	467	30	11081	427
						1959	34	12928	3.7	480	28	12776	467	33	11729	465
						1960	3	12910	3.5	451	3	13713	506	1	11031	419
1044435	224	470	11414	3.7	422	1953	23	11605	3.7	430	22	12050	438	14	11499	418
						1954	76	11705	3.7	429	74	11867	427	65	11713	421
						1955	81	11526	3.8	435	79	12346	447	75	11737	424
						1956	113	11202	3.8	418	111	12125	441	104	11786	427
						1957	80	11571	3.6	432	77	12302	445	77	12049	456
						1958	62	11619	3.6	422	58	12784	462	56	12046	444
						1959	31	11237	3.7	417	30	12301	448	29	12461	454
						1960	4	12436	3.7	458	4	12390	445	2	12056	436
1045403	46	106	11502	3.8	437	1951	5	13820	3.6	499						
						1952	6	14283	3.5	488						
						1953	4	13123	3.7	477						
						1954	10	12670	3.6	458						
						1955	15	11407	3.7	429	10	12392	443	10	11653	407
						1956	23	10980	3.9	422	18	11638	434	17	11403	418
						1957	11	10295	3.9	402	10	11660	441	9	11117	427
						1958	18	12486	3.8	473	16	12656	471	11	12313	492
						1959	12	11667	3.8	447	12	12635	469	10	13065	471
						1960	2	15985	3.9	625	2	12985	495	1	12786	495
1047020	16	18	11163	3.7	408	1953	3	10287	3.5	362	3	12727	464	3	12074	432
						1954	4	10523	3.7	368	4	13130	461	3	11187	398
						1955	7	11783	3.9	450	7	11640	443	7	10846	399
						1956	1	10250	3.6	371				1	12415	476
						1957	2	11405	3.5	374	2	12720	455	1	13015	455
						1959	1	13360	3.5	474	1	11770	439	1	14257	510
1048029	6	9	12055	3.5	428	1956	3	11170	3.5	392	3	11640	422	2	12132	453
						1957	4	12765	3.7	479	4	11975	429	4	12764	463
						1958	2	12810	3.7	470	1	13920	469			
1048545	8	8	10894	3.7	409	1957	1	9350	3.6	336						
						1959	7	11114	3.7	420	7	11576	426	7	11440	420
1049584	1	1	11360	4.3	484	1953	1	11360	4.3	484	1	10050	566	1	9200	356
1051100	5	12	10569	3.8	400	1954	2	9405	3.9	364	2	11985	448	1	8982	340
						1955	3	9317	3.8	348	3	12277	442	1	10878	409
						1956	2	11350	4.0	455	2	10890	406	1	12077	472
						1957	4	11325	3.7	421	4	11785	421	4	11097	402
						1958	1	13240	4.1	537	1	10780	367	1	11042	365
1052196	2	2	11185	3.9	434	1959	2	11185	3.9	434	2	12225	480	2	11990	454
1052587	24	38	11318	3.7	415	1952	1	11170	3.8	423						
						1954	4	8785	4.0	336						
						1955	14	11399	3.6	405	10	10360	385	9	10150	382
						1956	10	11632	3.8	442	8	11446	427	7	11677	439
						1957	7	11217	3.9	426	6	12440	441	6	12037	439
						1958	2	13430	3.5	467	2	13185	506	1	14235	509
1054406	23	35	12013	3.7	435	1955	2	9475	4.0	369	2	10185	412	2	9979	404
						1956	5	12978	3.6	465	5	13462	494	5	13093	480
						1957	3	11140	3.5	394	3	13727	492	3	13669	497
						1958	12	11892	3.6	422	10	12828	463	9	10816	458
						1959	11	12285	3.7	451	10	13121	475	11	11691	460
						1960	2	9850	3.9	381	2	13255	438	2	13239	471
1054495	77	140	11642	3.4	398	1953	14	13328	3.5	462	13	13155	473	10	12155	453
						1954	40	11499	3.5	398	40	12147	442	38	11882	431
						1955	30	11361	3.4	385	30	11601	419	28	11667	426
						1956	25	11454	3.5	392	25	11663	427	22	11614	422
						1957	18	12606	3.3	420	17	12291	447	15	12181	440
						1958	6	12685	3.6	450	5	13042	472	5	12688	462
						1959	5	13540	3.3	440	5	14086	474	5	13671	477
						1960	2	12500	3.6	442	1	13070	457	2	14007	488
1055483	4	5	12409	4.0	490	1955	1	10360	4.6	473	1	12690	485	1	11380	413
						1959	3	13350	3.8	501	3	13037	470	3	13509	490
						1960	1	14650	3.8	553	1	15710	620			
1056882	74	109	12669	3.7	460	1953	1	10290	3.4	355	1	11020	406	1	10747	396
						1954	1	9710	3.5	340	1	12490	451	1	10769	399
						1955	4	11725	3.6	420	4	13205	454	4	12282	454
						1956	10	12308	3.8	458	10	12334	451	10	12551	467

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY HERD AVERAGE RECORDS NO.	MILK LB.	FAT LB.
							HOLSTEIN										
						1957	12	11611	3.6	417	11	11973	423		12	11615	412
						1958	35	12680	3.7	466	34	12458	465		33	11711	434
						1959	39	13077	3.6	470	37	12765	470		39	12578	479
						1960	7	12674	3.7	469	7	13174	477		3	11300	413
1057124	2	2	14000	3.4	482	1958	1	13380	3.1	419	1	11970	410		1	13533	492
						1959	1	14620	3.7	544	1	13270	496		1	13767	487
1058067	25	35	10733	3.7	392	1953	1	12600	4.0	503							
						1954	7	9883	3.6	359							
						1955	1	11860	3.9	457							
						1956	7	10474	3.6	380	6	12867	457		4	12933	468
						1957	2	11800	3.8	447	2	14515	520		2	12873	471
						1958	8	10440	3.5	370	8	13533	456		7	12950	456
						1959	8	11998	3.7	443	8	13499	481		5	13943	483
						1960	1	11060	4.0	437	1	13260	487				
1059274	2	4	10500	3.7	370	1955	1	4980	3.9	194	1	11100	408		1	10573	360
						1957	2	15110	3.5	521	2	13465	483		2	12502	459
						1958	1	17840	3.3	592	1	14640	520		1	13533	492
1060822	24	48	12973	3.5	452	1956	7	13277	3.5	454	6	13007	466		5	12197	443
						1957	11	11782	3.4	403	10	11009	410		9	12017	444
						1958	19	13873	3.6	493	18	12226	459		15	11696	464
						1959	11	13926	3.4	482	10	13000	482		9	11004	451
1061174	39	52	12738	3.7	468	1958	13	13411	3.5	466	11	12838	461		13	11230	464
						1959	26	13431	3.8	501	26	13188	488		24	13507	497
						1960	13	11638	3.6	416	12	11751	435		1	16219	440
1061894	6	11	11440	3.7	423	1957	2	8685	3.7	315	2	9310	533		2	10633	373
						1958	6	12462	3.7	462	4	13618	475		5	10194	426
						1959	7	10735	3.8	411	2	11750	407		2	13211	465
						1960	1	10340	3.9	399	1	12340	453		1	11827	433
1061911	5	6	12365	3.3	400	1957	1	15490	2.4	374	1	13830	501		1	14017	496
						1958	1	16360	3.1	501	1	12330	442		1	13309	485
						1959	4	11475	3.4	390	4	12563	463		4	12481	463
1062852	3	6	11513	3.4	391	1952	1	13900	3.1	431							
						1953	1	14410	3.4	495							
						1954	1	10050	3.4	342	1	9530	329		1	8099	261
						1955	1	10250	3.5	363	1	12110	427		1	11292	408
						1956	1	10230	3.5	363	1	10970	368		1	11598	414
						1957	1	10520	3.6	374	1	11430	386		1	12829	426
1062853	6	10	11112	3.4	376	1954	2	10965	3.3	362	2	11480	416		2	11129	412
						1955	1	14020	3.5	460	1	12390	433		1	11292	408
						1956	3	12320	3.4	422	3	11467	450		3	10726	424
						1957	2	10090	3.5	351	2	10425	471		1	10737	409
						1958	1	12080	3.5	421	1	12190	454		1	11096	507
						1959	1	10380	3.7	385	1	11560	441		1	12445	474
1064006	1	1	14150	3.5	502	1960	1	14150	3.5	502	1	10680	356				
1064113	79	104	13449	3.5	464	1956	1	8180	3.9	318							
						1958	44	13346	3.5	458	37	12849	457		36	11606	444
						1959	44	14145	3.5	493	40	13363	481		38	12710	490
						1960	15	12159	3.5	427	14	12617	463		6	12731	452
1064738	122	165	12323	3.6	442	1955	1	8320	3.5	295							
						1956	19	11832	3.5	409	13	11122	390		11	12049	422
						1957	39	11742	3.6	425	37	11468	428		33	12272	444
						1958	48	13102	3.6	473	44	13068	466		41	11836	444
						1959	53	12874	3.6	463	47	12556	447		50	11406	447
						1960	5	11242	3.6	404	4	13175	472		2	12246	440
1065089	1	1	9680	3.5	339	1959	1	9680	3.5	339	1	8840	312		1	11576	365
1066941	1	2	13370	3.5	469	1958	1	13500	3.6	482	1	14270	500		1	13538	492
						1959	1	13240	3.4	456	1	14540	535		1	13767	487
1070036	2	2	14365	3.7	530	1958	1	12090	3.7	445	1	7920	289				
						1959	1	16640	3.7	614	1	14350	478		1	15020	513
1070198	5	7	12982	3.6	462	1956	1	13470	3.5	474							
						1957	1	11140	3.6	400							
						1958	1	15910	2.9	467	1	12380	470		1	12829	471
						1959	2	12480	3.6	471	2	15200	557		2	15070	551
						1960	2	13245	3.6	468	1	12740	477		1	12775	479
1070226	16	22	15791	3.4	549	1958	7	15934	3.6	572	4	16755	572		5	11707	510
						1959	15	16399	3.4	567	11	15740	522		11	10600	533
1070850	45	73	13097	3.5	460	1954	1	11660	3.8	417							
						1955	3	13690	3.5	472							
						1956	8	13764	3.6	481	6	12547	469		6	11718	438
						1957	17	13093	3.7	475	17	12038	460		15	11358	440
						1958	19	14281	3.4	476	16	12709	466		18	11438	473
						1959	22	13572	3.6	482	18	13141	475		22	11555	481
						1960	3	16600	3.2	534	3	13767	498		1	14682	559
1072328	185	245	13013	3.6	465	1956	1	14920	3.7	557	20	11560	413		11	12030	432
						1957	24	10936	3.5	383							



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
							HOLSTEIN									
1072329	88	130	12639	3.6	446	1958	91	13663	3.6	437	80	13129	472	77	11440	459
						1959	118	13188	3.6	474	107	13225	476	111	11994	464
						1960	11	13381	3.5	465	11	13363	483	5	13100	468
						1954	1	7360	3.7	273						
						1955	3	11913	3.6	474						
1072342	2	2	12825	3.4	434	1956	5	11840	3.6	476	4	10445	381	4	11088	370
						1957	27	12115	3.5	426	19	12065	437	15	12337	453
						1958	48	13145	3.5	465	43	12902	476	42	11174	445
						1959	49	12866	3.6	461	47	12565	471	46	12131	465
						1960	2	6810	3.6	237	1	13250	469	1	13440	461
1072819	1	2	16025	4.0	639	1959	1	16930	4.0	676	1	14690	477	1	14704	517
						1960	1	15120	4.0	662	1	15030	509			
1073461	1	2	13590	3.4	454	1956	1	13020	3.4	443	1	13040	481	1	11118	414
						1957	1	14160	3.3	465	1	13520	482	1	12562	459
1075280	2	4	12904	3.8	488	1958	2	12860	3.9	504	1	14750	542	2	8050	539
						1959	2	13340	3.7	495	2	14065	513	2	13211	483
1077788	1	1	9140	3.9	353	1960	1	9140	3.9	353						
1079168	95	122	12195	3.6	433	1952	1	14960	3.5	500						
						1953	1	10260	3.5	359						
						1954	2	13230	3.5	458						
						1955	4	12110	3.5	418						
						1956	4	10658	3.2	342						
1079424	2	2	14940	3.8	560	1957	20	10585	3.7	388	16	11779	434	16	11744	452
						1958	40	12307	3.6	439	35	12625	464	37	11378	441
						1959	47	12576	3.6	450	45	12694	470	47	12326	467
						1960	3	14410	3.4	491	3	13383	506			
1079866	27	58	11825	3.7	434	1959	1	15170	3.5	530	1	13790	510	1	13963	516
						1960	1	14710	4.0	589	1	17240	640	1	16208	616
						1955	21	12707	3.7	471	20	12279	435	17	11638	414
						1956	18	12673	3.7	460	18	12353	436	17	12829	453
						1957	7	11579	3.5	408	7	11610	397	7	13167	460
1081270	5	10	13412	3.8	510	1958	6	12895	3.8	492	5	12654	466	5	11493	432
						1959	6	10258	3.7	380	6	11678	436	6	11381	422
						1955	1	12580	3.7	466	1	13210	481	1	13331	468
						1956	1	13840	3.8	522	1	12770	475	1	13690	480
						1957	1	16090	3.7	588	1	14760	546	1	13276	472
1081684	3	7	11158	4.0	446	1953	3	14663	3.7	545	3	14677	519	2	13156	472
						1954	3	12980	3.8	493	3	12463	439	3	12459	459
						1960	1	13350	4.1	545						
						1956	2	9455	4.0	363	2	13655	491	2	12917	472
						1957	2	11185	4.1	459	2	12455	439	2	13325	472
1082290	1	1	12640	3.7	471	1958	2	13675	4.1	555	2	13805	501	2	12339	453
						1959	1	12370	4.3	532	1	13010	503	1	13778	511
						1959	1	12640	3.7	471	1	13420	461	1	13898	470
						1958	1	10700	3.9	414	1	12040	445	1	10911	405
						1959	1	7700	4.6	356	1	13280	467	1	14214	497
1082308	1	2	9200	4.3	385	1960	1	17360	3.4	591	1	14140	520			
1087974	1	1	17360	3.4	591	1960	1	17360	3.4	591	1	14140	520			
1088151	21	30	14411	3.9	558	1958	11	13831	3.9	534	11	13192	475	11	13085	463
						1959	15	14676	4.0	578	15	13917	516	14	14137	526
						1960	4	14810	4.6	593	4	12790	481	1	12524	506
1088709	1	1	14210	3.8	534	1958	1	14210	3.8	534						
1090376	9	15	11558	3.5	408	1953	1	12710	3.4	431	1	10560	378			
						1954	3	10300	3.8	395	3	10997	396	3	11038	399
						1955	5	11616	3.4	392	5	11786	428	4	12132	431
						1956	3	13607	3.4	473	3	11453	434	3	11865	456
						1957	1	10210	3.4	347	1	12600	469			
1090978	1	1	11760	4.0	473	1958	2	11355	3.9	442	2	11135	434	2	11511	435
						1959	1	11760	4.0	473	1	16440	573	1	16045	578
						1957	2	9185	3.4	313	2	12610	436	2	12208	459
						1958	3	13226	3.6	481	3	13163	475	3	13621	479
						1959	4	12878	3.5	446	4	12868	466	4	13103	477
1091004	38	46	13535	3.5	479	1958	10	13379	3.6	430	10	12657	453	7	11188	413
						1959	32	13792	3.5	485	29	12898	473	30	11723	475
						1960	4	10396	3.6	373	3	13450	486	1	13091	496
1091409	4	4	13458	3.7	497	1958	1	11970	3.9	464	1	11960	410	1	9919	352
						1959	2	15395	3.7	564	2	13835	502	2	13916	510
						1960	1	11070	3.6	396	1	10250	381	1	9784	346
						1954	1	16780	3.7	619						
						1955	20	12257	3.6	438	14	11734	421	9	12072	433
1092428	227	309	11921	3.6	423	1956	48	11236	3.5	377	43	11474	409	38	11910	426
						1957	69	12112	3.6	432	84	12367	440	69	12377	443
						1958	76	12489	3.6	443	68	12574	459	61	11483	426
						1959	69	12101	3.5	423	62	12518	449	65	11836	454



TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR														
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB. PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB. PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	MILK LB.	FAT LB.					
					1960	HOLSTEIN 6	10437	3.6	362	5	12940	471	3	13371	471				
1092843	2	2	14600	3.6	521	1957 1959	1 1	16100 13100	3.6 3.5	581 460		1	12270	456	1	13963	519		
1094921	12	19	11729	3.6	416	1955 1956 1957 1958 1959	1 2 2 8 6	10790 13550 12375 11403 11500	3.7 3.5 3.6 3.7 3.6	394 471 443 411 412	1 2 2 7 6	12180 12490 12055 12423 12035	457 458 468 442 445	1 1 1 7 6	11936 11870 11663 10389 12886	445 438 446 427 467			
1096540	1	1	12510	3.7	467	1960	1	12510	3.7	467	1	13110	467						
1101117	58	98	11819	3.5	413	1955 1956 1957 1958 1959 1960	1 10 27 34 23 3	9700 11252 12363 11658 11543 12093	3.9 3.4 3.4 3.6 3.5 3.6	376 377 422 417 406 436		9 26 29 21 3	11050 12023 12309 12181 12037	428 452 446 441 420	7 24 29 23 2	11556 12327 10924 11710 11652	411 443 438 454 411		
1102400	63	105	12467	3.5	434	1953 1954 1955 1956 1957 1958 1959 1960	2 1 3 34 28 19 16 2	10190 9070 13017 12290 13465 12774 12538 13480	3.3 3.3 3.6 3.5 3.5 3.5 3.5 3.2	333 301 476 432 469 437 434 425		30 25 17 15 2	12226 12230 12096 12797 11760	432 431 452 457 385	24 22 18 16	12389 12494 11626 12656	432 445 438 447		
1102655	13	16	9852	3.6	354	1954 1955 1956 1957 1958	1 4 5 4 2	10190 11130 9364 8005 12105	3.5 3.5 3.7 3.7 3.3	360 389 350 299 393		1 3 4 2	13130 9910 12010 13040	492 356 444 476		3 4 2	10780 11020 12590	390 405 435	
1106775	6	7	11855	3.6	429	1958 1959	4 3	11003 14470	3.5 3.9	393 362	4 3	11658 14850	425 539	2 2	13108 12364	472 501			
1107852	83	107	10779	3.8	412	1956 1957 1958 1959 1960	2 20 36 42 7	11610 10134 10737 11007 10006	3.7 3.8 3.9 3.9 3.8	425 382 412 424 376		2 19 34 36 7	13575 12111 12541 12529 12140	507 434 464 460 453	1 18 34 36 3	14475 12001 11852 11777 12542	543 429 442 463 471		
1107908	16	21	11513	3.6	413	1956 1957 1958 1959	5 7 2 7	12104 11247 11010 10943	3.7 3.5 3.9 3.5	452 389 430 387	5 6 2 6	10954 10832 11395 11298	410 404 406 402	5 6 2 6	11118 10383 10350 10081	404 385 390 414			
1111075	7	10	14159	3.5	500	1956 1957 1958 1959 1960	1 1 4 3 1	7920 13810 14633 14340 14920	3.3 3.7 3.5 3.6 3.2	260 512 514 524 476		1 1 4 3 1	10790 14220 14293 13895 11230	421 503 495 507 403		3 2	12553 12889	444 471	
1111076	15	28	12928	3.6	460	1956 1957 1958 1959 1960	2 3 9 10 4	13690 13730 13556 13572 12668	3.8 3.8 3.6 3.6 3.6	522 516 477 483 451		2 3 9 10 3	13910 12377 12677 11876 13073	516 446 454 429 490	2 3 9 10 1	12628 12408 12281 13149 14061	474 447 439 470 496		
1113278	11	13	12629	3.6	459	1956 1957 1958 1959	3 2 7 1	13453 12655 12249 14540	3.4 3.7 3.7 3.7	461 459 450 535	1 2 6 1	13150 11650 12608 13570	439 434 461 460	2 2 6 1	11429 13483 12621 12677	409 481 455 429			
1115040	4	5	12401	3.6	450	1957 1958 1959	3 1 1	11770 9970 15280	3.5 3.5 3.8	417 345 574	2	11990	445	2	11876	450			
1115396	1	1	12090	3.6	433	1959	1	12090	3.6	433	1	10810	396	1	12197	440			
1115687	1	1	12900	3.6	469	1958	1	12900	3.6	469									
1116198	1	2	10670	3.3	350	1958 1959	1 1	12210 9130	3.3 3.2	404 296	1 1	11930 13560	446 462	1 1	10911 14344	405 499			
1116800	53	67	13958	3.6	500	1957 1958 1959 1960	11 25 27 4	11633 14728 14790 13478	3.7 3.5 3.6 3.5	430 510 536 471	9 21 26 4	11506 13018 13073 13108	415 461 470 459	8 20 27 1	11550 10282 12407 13974	412 458 460 487			
1117014	82	115	12123	3.6	438	1957 1958 1959 1960	22 42 46 5	11284 12843 12531 12120	3.6 3.6 3.6 3.6	402 461 450 458	22 41 42 5	11919 12635 12727 12002	426 452 449 422	16 31 43 3	12301 12366 11459 12495	449 444 448 444			
1117372	26	27	12227	3.7	452	1958 1959	1 20	12150 12652	3.6 3.7	436 467	19	13661	498	18	12865	503			

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	SUB-DAY RECORDS NO.	CONTENT. MILK LB.	TEMP. LB.	AV. RECORDS NO.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
						1960	HOLSTEIN										
1118017	3	4	10777	3.8	401	1957	6	10412	3.8	387	5	12404	467		2	11587	423
						1959	3	12540	3.9	472	2	11005	457	3	9054	511	
						1960	1	9700	3.5	337		1	14704	550			
1118088	1	5	13532	3.9	530	1952	1	13820	4.1	571	1	12300	457				
						1953	1	15350	3.9	604	1	12770	409				
						1954	1	12000	3.9	470	1	10410	396	1	11805	451	
						1956	1	14520	4.0	580	1	11780	426	1	11925	445	
						1958	1	11970	3.6	426				1	11892	443	
1118704	13	16	11073	3.6	391	1956	1	5770	3.9	224							
						1957	2	8600	3.5	302	2	11335	397	1	11412	423	
						1958	9	12457	3.5	434	9	12772	444	9	12201	421	
						1959	4	10883	3.6	390	4	12863	457	2	13991	474	
1118709	1	3	11740	3.3	394	1956	1	13970	3.4	475	1	10970	371	1	10955	370	
						1957	1	10510	3.2	339	1	11630	407	1	11369	389	
						1958	1	10740	3.4	369	1	12100	421	1	13102	477	
1119514	14	19	13921	3.3	460	1956	1	11800	3.6	419	1	11050	369	1	12960	456	
						1957	2	10915	3.7	384	2	12350	433	2	12818	441	
						1958	4	13690	3.4	460	4	13325	453	4	11780	408	
						1959	11	14383	3.3	474	10	12731	462	11	13131	467	
						1960	1	11180	3.3	368	1	9550	350				
1120013	4	5	12830	3.5	442	1959	4	13638	3.5	480	4	13148	480	3	13273	488	
						1960	1	4260	3.5	149							
1121407	3	5	10794	3.9	419	1957	1	10900	3.6	391	1	12190	467				
						1958	1	10160	3.7	379	1	10670	422	1	11140	416	
						1959	3	11283	3.9	437	3	11467	437	3	12016	448	
1122159	2	2	13760	3.3	444	1959	2	13760	3.3	444	2	11960	415	1	12481	436	
1124811	1	1	14080	4.0	570	1958	1	14080	4.0	570	1	11130	403				
1125202	4	5	12458	3.5	439	1956	1	9750	3.5	343							
						1957	1	11440	2.9	335							
						1959	1	14710	3.6	523	1	16490	551	1	15958	543	
						1960	2	13930	4.0	554	1	10700	410	2	6099	416	
1125395	21	27	12557	3.7	461	1957	1	11700	3.8	448	1	14140	495	1	14017	496	
						1958	6	13535	3.7	493	5	12616	461	6	10464	443	
						1959	18	12803	3.7	472	17	12632	464	17	12643	467	
						1960	2	10890	3.6	393	2	12775	451	1	14072	541	
1129193	18	25	12815	3.5	448	1956	3	12667	3.6	451	3	12913	457	2	12361	440	
						1957	11	12857	3.5	446	11	11293	408	10	11844	424	
						1958	5	12502	3.5	441	5	12152	435	5	11822	403	
						1959	5	13586	3.6	477	4	12368	428	5	10466	442	
						1960	1	11630	3.7	436	1	12530	457				
1130509	20	31	11612	4.1	468	1954	1	11480	4.0	454							
						1955	2	10215	3.6	367							
						1956	4	9098	4.4	400	3	9047	334	2	12175	459	
						1957	12	11337	4.2	473	10	11702	432	9	12235	447	
						1958	6	12031	3.9	466	7	13450	509	5	9592	456	
						1959	3	13977	4.2	584	3	14003	529	2	14040	537	
						1960	1	11620	4.0	465	1	9870	364	1	11456	452	
1131186	24	33	11491	3.8	435	1954	2	8455	3.7	308	2	11485	433	2	12397	457	
						1955	6	9420	3.7	350	5	11580	413	5	12020	424	
						1956	7	13536	4.0	541	7	11176	378	5	12613	464	
						1957	6	12472	3.8	477	6	12293	457	6	12913	477	
						1958	9	13193	3.7	486	8	12661	456	5	12258	433	
						1959	3	10043	3.9	400	3	13563	502	3	13153	485	
1132993	17	24	13346	3.6	479	1957	2	13295	3.6	481	2	13690	507	2	13969	506	
						1958	6	13527	3.5	480	5	13130	463	5	12448	451	
						1959	16	13318	3.6	477	15	12215	449	14	12146	476	
1133812	9	16	10987	3.5	385	1955	2	12670	3.5	444							
						1956	9	11020	3.5	383							
						1957	4	10018	3.7	366							
						1958	1	13560	3.4	456							
1133899	2	2	14230	3.7	516	1959	2	14230	3.7	516	2	14250	526	2	14192	519	
1135651	26	32	11072	3.9	424	1958	7	10761	3.8	407	7	12120	439	5	11197	409	
						1959	24	11542	3.8	436	22	12839	466	23	11853	462	
						1960	1	8766	3.7	323	1	10610	416	1	11238	429	
1140661	1	1	12290	4.0	490	1958	1	12290	4.0	490	1	13030	441	1	12927	446	
1145163	9	9	15917	3.2	503	1959	9	15917	3.2	503	9	15368	541	8	14365	486	
1146343	39	54	12991	3.7	484	1957	3	10583	3.7	391	3	11317	396	2	11009	388	
						1958	18	13049	3.7	484	14	12131	440	14	10542	433	
						1959	31	12746	3.7	477	29	12463	450	29	12303	458	
						1960	2	12415	3.9	487	2	12235	455	1	11238	429	
1152211	51	65	12572	3.6	454	1956	1	13250	3.7	491							
						1957	13	11225	3.5	398	12	12119	426	6	12546	452	
						1958	19	12651	3.7	462	16	12958	475	11	12504	444	
						1959	30	13033	3.6	471	26	13118	466	28	11046	454	

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE					RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HEU. MILK LB.	AV. FAT LB.
						1960	HOLSTEIN 2	13625	3.5	479	2	14765	547	1	12949	469
1152241	4	5	10468	3.9	411	1955	1	10010	3.6	356	1	11100	420	1	9320	343
						1957	1	6490	3.7	238	1	11670	445	1	16737	407
						1958	1	17160	3.5	606	1	12600	466	1	12629	471
						1959	2	11650	4.4	507	2	15590	559	2	14661	535
1152248	1	1	13230	3.8	500	1959	1	13230	3.8	500	1	10720	396	1	11020	412
1153646	25	29	12646	3.5	439	1955	2	14565	3.6	530						
						1956	4	12095	3.7	440						
						1957	1	17100	2.6	448						
						1958	1	14740	3.2	474	1	13050	467	1	10595	415
						1959	20	12432	3.5	453	20	12754	456	19	13295	475
						1960	1	15570	3.4	525	1	14790	521			
1153740	7	8	10530	3.6	382	1957	1	8270	3.6	301	1	14330	526	1	12753	491
						1958	3	9527	3.4	320	3	15053	450	3	12289	430
						1959	4	12345	3.7	457	4	15463	482	4	13766	496
1154142	47	67	11617	3.7	424	1954	3	10770	3.9	417	3	10670	377	2	12345	457
						1955	12	10566	3.9	407	11	11664	424	12	11199	409
						1956	17	10610	3.7	402	17	11453	424	17	12314	448
						1957	12	11182	3.6	405	12	11546	413	9	11768	421
						1958	7	11466	3.5	404	6	11620	429	6	12306	451
						1959	11	14645	3.5	514	11	12529	472	11	13009	476
						1960	3	12340	3.3	407	3	14527	521			
1156059	4	4	12408	3.6	449	1958	1	15510	3.5	477	1	14160	546	1	13418	496
						1959	2	13345	3.6	502	2	15515	494	2	14492	522
						1960	1	9750	3.3	517	1	13530	479			
1157722	3	4	11060	3.7	404	1957	1	6150	4.2	256						
						1958	2	15945	3.5	495	2	12455	442	2	11511	424
						1959	1	12540	3.6	449	1	10140	404	1	11726	424
1161998	1	1	11990	3.7	445	1959	1	11990	3.7	445						
1164014	2	2	11505	3.7	423	1958	1	9790	3.6	371	1	11110	384	1	11642	365
						1959	1	13220	3.6	475	1	11620	415	1	11870	407
1164018	5	5	11130	3.5	391	1959	4	11920	3.5	416	4	12060	426	4	12895	455
						1960	1	7970	3.7	293						
1165815	1	1	13130	3.7	484	1958	1	13130	3.7	484	1	13770	484	1	11674	437
1166105	1	1	11970	3.6	436	1958	1	11970	3.6	436						
1167093	34	41	15367	3.7	498	1958	3	13907	3.8	519	3	13267	463	3	14267	502
						1959	24	15865	3.7	515	22	13690	503	21	13867	510
						1960	14	12694	3.7	474	11	13662	511	4	15610	516
1167510	68	89	13706	3.7	506	1955	1	14850	3.4	510						
						1957	1	13820	3.1	424						
						1958	1	6970	3.5	244						
						1959	68	13801	3.7	509	67	13099	473	56	12902	472
						1960	16	15666	3.6	509	17	13459	463	7	13433	471
1170910	7	8	12134	3.7	452	1956	2	12085	3.4	406	1	14230	523	1	13026	479
						1959	3	11704	3.8	440	4	11795	446	4	12816	474
						1960	1	14510	4.0	583	1	12620	475			
1175466	2	2	11020	3.4	370	1958	2	11020	3.4	370	2	14655	506	2	13091	463
1175467	8	9	12441	3.7	454	1958	3	14053	3.8	524	3	12257	441	3	11485	414
						1959	3	13082	3.6	465	3	12726	466	5	12042	456
						1960	1	7030	4.0	276	1	10670	361			
1175561	66	99	12022	3.7	442	1954	1	13450	3.5	470						
						1955	2	12745	4.0	506						
						1956	10	10442	3.6	380	2	11625	408			
						1957	19	11864	3.6	455	14	12269	447	12	12393	453
						1958	30	12755	3.7	471	26	12662	459	27	11562	443
						1959	34	15017	3.7	464	29	12964	477	30	11943	460
						1960	3	11053	3.7	406	3	12247	457			
1177959	2	3	13595	3.7	494	1957	1	14170	3.7	520	1	13150	475	1	12753	463
						1958	1	8990	3.6	327	1	13010	464	1	12927	475
						1959	1	15610	3.6	564	1	14610	516			
1178237	12	12	13472	3.8	514	1959	7	13174	3.8	499	7	14101	507	7	12526	456
						1960	5	13686	3.8	535	4	11695	436	2	13763	484
1179373	1	1	9520	3.6	358	1960	1	9520	3.6	358	1	12390	456	1	11521	422
1179574	10	15	12621	3.7	462	1957	3	11540	3.7	426	3	11550	409	3	9788	352
						1958	6	14050	3.7	517	6	11797	428	6	11605	415
						1959	4	12615	3.6	471	4	12268	426	4	12544	442
						1960	2	12095	3.5	416	2	12060	422			
1179575	8	11	12446	3.6	449	1958	7	11244	3.6	401	6	13617	494	5	12611	466
						1959	3	14820	3.7	549	3	14567	519	3	14145	522

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						1960	HOLSTEIN				1	13160	3.4	447			
1184848	6	7	12866	4.1	522	1958	3	12477	3.9	480	3	13467	485		2	12306	441
						1959	4	13273	4.1	542	4	13813	531	4	14404	543	
1186474	1	1	11740	3.5	408	1960	1	11740	3.5	408				1	12481	463	
1189002	2	2	12095	4.1	484	1959	2	12095	4.1	484	2	12680	521	2	12502	474	
1189010	63	72	12507	3.7	460	1956	1	13790	3.2	446							
						1957	1	13896	3.3	451							
						1958	13	11590	3.7	425	13	12759	454	13	11611	419	
						1959	50	13041	3.7	481	47	12941	466	42	12659	464	
						1960	7	10991	3.7	405	7	11934	437	2	12514	466	
1190151	4	5	11690	3.8	446	1958	1	10170	3.7	380	1	11440	454				
						1959	2	10050	3.7	369	2	10350	398	2	10459	396	
						1960	2	13535	3.9	531	2	13370	505	1	12655	441	
1190396	2	4	16400	3.4	545	1959	2	16010	3.5	529	2	15110	528	2	15898	551	
						1960	2	16790	3.4	560	2	14820	555	2	15092	546	
1190889	25	32	12720	3.6	447	1954	1	11610	3.5	410							
						1956	5	10977	3.6	395	3	9890	352				
						1957	5	11594	3.7	428	4	12523	456				
						1958	6	13758	3.5	473	5	13266	481	4	12800	455	
						1959	13	13461	3.5	470	10	12157	445	12	11587	456	
						1960	4	13263	3.7	475	4	13005	471	2	13522	494	
1192779	1	1	10310	3.6	366	1959	1	10310	3.6	366	1	11640	406	1	11870	407	
1192784	1	2	15455	3.5	534	1958	1	14880	3.6	539	1	10900	395				
						1959	1	16030	3.3	529	1	10940	425	1	11663	427	
1192789	1	1	19890	3.3	653	1960	1	19890	3.3	653	1	17290	591				
1193934	1	1	11840	3.8	449	1959	1	11840	3.8	449	1	11690	356	1	15293	568	
1194166	2	5	10634	4.0	427	1958	1	11760	3.9	460	1	11060	378				
						1959	3	9913	3.9	387	2	12240	446	3	8146	421	
						1960	1	10950	4.3	472	1	9580	337				
1195742	7	11	10260	3.6	368	1956	2	9615	3.8	360	2	9945	364	2	10792	392	
						1957	3	10890	3.6	395	3	10643	383	3	11696	407	
						1958	2	11750	3.4	399	2	12115	434	1	11140	426	
						1959	3	11773	3.8	447	2	13000	481	3	8734	461	
						1960	1	7370	3.4	247	1	9060	337				
1196469	6	7	12252	3.7	457	1959	6	12067	3.7	450	6	12765	466	6	12884	465	
						1960	1	12710	3.7	476	1	14420	504	1	13974	487	
1200288	1	1	12150	4.1	502	1959	1	12150	4.1	502	1	11450	429	1	10933	391	
1202275	1	1	11930	4.7	566	1960	1	11930	4.7	566	1	14970	586				
1204748	6	9	12931	3.5	449	1956	2	14410	3.4	490	2	12745	443	2	12601	461	
						1958	2	11545	3.6	410							
						1959	5	14122	3.5	496	4	14615	540	4	11222	524	
1204749	21	32	14793	3.6	534	1958	12	15748	3.6	558	9	14974	555	10	12422	492	
						1959	20	14034	3.7	519	12	14915	517	18	11070	518	
1209326	11	13	11975	4.2	498	1956	1	13410	3.7	499	1	12830	480	1	14682	532	
						1957	2	10040	4.4	437	2	12205	447	1	13276	472	
						1958	1	7460	4.8	355	1	9920	406	1	9690	397	
						1959	8	12736	4.1	525	8	13329	480	8	12365	461	
						1960	1	12310	4.2	517	1	12790	516				
1210295	1	1	17750	4.0	711	1959	1	17750	4.0	711	1	14760	555	1	14759	576	
1211376	11	16	11540	3.6	413	1956	1	8480	4.5	380	1	14870	502	1	13538	462	
						1957	4	11648	3.7	423	4	11565	393	2	12361	425	
						1958	5	11770	3.4	395	3	12223	433	3	11609	420	
						1959	7	11803	3.6	422	7	12097	442	7	13206	489	
						1960	1	12350	3.4	420	1	14490	510				
1215370	1	1	12330	3.0	364	1957	1	12330	3.0	364							
1215687	1	1	10800	3.5	383	1959	1	10800	3.5	383	1	14740	543	1	14497	532	
1216909	4	4	11028	4.0	440	1959	3	10240	4.0	402	3	13707	494	2	13048	454	
						1960	1	13390	4.1	554	1	12870	483				
1216957	7	7	13443	3.7	499	1959	7	13443	3.7	499	7	12691	489	7	13542	509	
1224513	4	4	13065	3.8	492	1958	1	12520	3.5	436	1	12540	462	1	11914	459	
						1959	3	13247	3.9	510	3	11823	455	3	12498	480	
1224521	2	2	11025	3.9	428	1959	1	10470	4.0	419	1	11410	424	1	12066	453	
						1960	1	11580	3.8	437	1	13710	469				
1230109	5	5	14346	3.4	490	1959	2	14435	3.2	455	2	11065	416	2	13206	502	
						1960	3	14287	3.6	513	3	13497	479	1	14246	547	

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1240095	1	1	9930	3.9	389	1959	1	9930	3.9	389	1	14000	495	1	13908	499
1241692	1	1	6820	3.2	219	1960	1	6820	3.2	219	1	12650	430			
1243216	1	1	12720	3.4	428	1959	1	12720	3.4	428				1	10235	483
1243459	1	1	15880	3.3	528	1959	1	15880	3.3	528	1	16310	596	1	15358	547
1245671	1	1	12820	4.2	542	1958	1	12820	4.2	542	1	13360	510	1	12906	476
1246450	1	1	11500	3.3	383	1958	1	11500	3.3	383	1	14100	538			
1246568	1	1	13270	3.3	440	1960	1	13270	3.3	440	1	10500	356			
1246729	32	33	12615	3.9	492	1958	2	14795	3.8	553	2	15330	529	2	14846	514
						1959	25	12557	3.9	490	25	12762	464	25	13363	488
						1960	6	11710	3.9	456	6	12715	463	3	12295	460
1249809	2	2	13530	3.7	495	1958	1	14060	3.8	556						
						1959	1	13000	3.5	453						
1250260	1	1	7420	3.7	276	1959	1	7420	3.7	276						
1252329	1	2	13780	3.8	521	1959	2	13780	3.8	521	1	13740	504	2	7243	490
1261309	5	7	12409	3.8	463	1958	2	12655	3.8	466	2	13330	456			
						1959	3	10597	3.9	418	2	10835	416	2	11832	441
						1960	2	14970	3.7	547	2	12935	503	1	12655	441
1262986	2	2	17160	4.0	684	1959	2	17160	4.0	684	2	13795	481	1	9527	385
1264447	5	6	12896	3.7	471	1959	3	9227	3.6	339	2	12640	461	3	9352	489
						1960	3	14887	3.6	534	3	12237	498			
1268124	1	1	15860	3.2	508	1959	1	15860	3.2	508	1	11530	394	1	12481	436
1274251	1	1	10890	3.9	428	1959	1	10890	3.9	428	1	11640	410	1	11761	416



RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
JERSEY																
381020	6	35	6910	4.9	340	1949	2	6315	4.5	283						
						1950	4	7450	5.1	371						
						1951	4	6583	4.8	321						
						1952	4	6790	5.0	331						
						1953	6	7115	5.2	369						
						1954	6	6428	5.0	323						
						1955	3	5977	4.6	270						
						1956	1	7560	4.5	344						
						1957	3	6893	4.8	337						
						1958	2	8660	4.5	387						
392431	3	19	7665	5.4	408	1947	5	6550	5.4	356	1	10080	493			
						1948	3	7370	5.4	401	1	9550	505			
						1949	4	8213	5.4	445	1	12040	546			
						1950	2	10260	4.9	501	1	8480	423			
						1951	2	9030	5.1	458	1	10730	546			
						1952	2	9180	5.3	488	1	9570	468			
						1953	1	8630	5.5	475	1	10510	533	1	8993	482
392492	4	14	8285	4.8	393	1949	3	9120	4.7	425						
						1950	3	8880	4.7	420						
						1951	3	7350	4.9	362						
						1952	2	6675	5.0	331						
						1953	1	8220	4.3	354						
						1954	1	7290	4.6	333						
						1955	1	5160	5.0	258						
401257	12	25	7000	5.1	354	1952	4	7240	4.7	333						
						1953	8	7734	5.3	408	1	8570	409	1	8251	387
						1954	5	7020	5.2	361						
						1955	4	7313	5.3	382	1	8530	430			
						1956	2	5605	5.4	299						
						1957	2	6115	5.8	351	1	7560	455			
401669	1	2	7655	4.9	371	1953	1	7710	4.9	379	1	7510	391	1	6529	323
						1954	1	7600	4.8	362	1	7940	434	1	7085	376
403441	1	7	8670	4.9	425	1948	1	9470	4.6	432						
						1949	1	9990	4.8	479						
						1950	1	8730	4.9	429						
						1951	1	9320	4.8	446	1	7630	457			
						1952	1	8380	6.0	504	1	7710	435			
						1953	1	7010	4.7	331	1	8240	449	1	8742	457
						1954	1	7790	4.6	356	1	7810	418	1	8611	425
404389	4	7	8342	5.6	466	1953	1	10710	5.2	551	1	7100	370			
						1954	3	8347	5.7	471	3	8027	432	3	8066	425
						1955	2	8755	5.5	477	2	10925	546	1	7695	422
						1956	1	7230	5.5	401						
408305	2	9	7500	5.2	374	1949	2	9565	5.0	467						
						1950	2	6345	5.4	324						
						1951	1	8680	4.5	390						
						1952	1	9930	4.7	465						
						1953	1	8410	4.5	381						
						1954	1	8150	4.5	365						
						1955	1	6100	4.3	260						
409543	2	2	6765	4.5	303	1947	2	6765	4.5	303						
410962	36	84	7312	5.5	401	1950	2	7930	5.5	432	1	9190	469			
						1951	3	7430	5.4	395	2	7835	404			
						1952	3	8010	5.6	440	2	7035	374			
						1953	17	7328	5.5	406	5	8092	429			
						1954	24	7142	5.5	391	12	7717	402	5	7724	386
						1955	15	7861	5.4	422	6	8603	441	10	7274	385
						1956	13	6868	5.3	356	8	8603	441	6	7865	403
						1957	5	8918	5.3	467	8	7998	419	8	8157	419
						1958	1	9300	4.6	431	5	9504	462	4	8453	449
						1959	1	7680	4.4	336	1	7990	395	1	7804	404
											1	7870	384	1	7434	376
412750	12	44	7496	5.1	381	1947	1	7250	5.0	365						
						1948	4	7860	5.3	415						
						1949	6	7833	5.0	388						
						1950	6	7150	5.1	362	1	9110	473			
						1951	6	7487	5.3	394	2	9730	485			
						1952	4	7618	5.2	398						
						1953	5	7924	5.3	427	3	7357	387	1	7685	378
						1954	4	7015	5.3	370	2	7020	360	2	7325	375
						1955	1	9450	4.6	431	1	8020	379			
						1956	3	7003	5.0	350	2	8665	398	2	7707	359
						1957	1	7890	5.0	394						
						1958	1	7600	5.4	414	1	9710	528	1	7837	424
						1959	2	7135	5.2	363	2	8325	440	1	7837	392
						426463	2	13	8269	5.1	414	1952	2	7790	5.1	394
1953	2	8055	5.2	415	2							7365	388	2	7412	386
1954	2	6465	5.2	329	2							7100	373	2	7543	404
1955	1	7530	5.5	412	1							7980	397	1	7968	407
1956	1	10240	5.4	553	1							6300	341	1	7892	402
1957	2	9285	5.0	454	2							7675	387	2	7816	402

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						1958	JERSEY									
							3	8530	4.9	408	3	8267	412	3	8320	431
426764	1	2	8275	5.6	457	1953	1	8560	5.6	477	1	7390	377	1	6529	323
						1954	1	7990	5.5	436	1	7870	419	1	7085	376
426850	3	10	6883	5.0	346	1950	1	8500	5.0	429	1	8670	418			
						1951	1	8440	5.4	451	1	8610	422			
						1952	1	7210	5.3	382	1	8280	435			
						1953	1	7250	4.6	337	1	6500	333			
						1954	3	6090	5.1	312	3	6923	357	3	6969	361
						1955	2	6340	4.9	311	2	6260	233	2	6922	359
						1957	1	7220	4.9	356						
427546	34	92	7090	4.9	360	1948	3	9890	5.2	516	1	9060	452			
						1949	7	8223	5.1	421	3	8597	423			
						1950	6	7883	5.0	397						
						1951	8	7331	5.4	390	4	6775	385			
						1952	13	8107	5.2	422	7	8666	454			
						1953	23	7312	5.1	370	18	8330	421	3	8338	411
						1954	18	7172	5.0	358	14	7993	409	15	8009	406
						1955	10	7146	4.8	347	9	7841	392	9	8278	419
						1956	3	6770	5.1	348	1	7400	407	2	7984	390
						1957	1	5760	4.6	264						
429684	10	19	6973	5.6	385	1952	1	8990	4.9	442	1	6840	376			
						1953	5	7112	5.6	391	5	6884	363	5	7665	403
						1954	3	7000	5.3	368	3	7340	401	3	7078	384
						1955	1	5250	5.9	309	1	7710	404			
						1956	1	9940	5.2	518	1	8540	477	1	8360	460
						1957	2	7890	6.0	469	2	9090	447	2	9080	465
						1958	4	6698	5.7	381	3	7063	386	1	9080	464
						1959	1	8810	4.6	405	1	7980	414	1	6682	358
						1960	1	7000	4.7	329	1	6570	341			
430288	25	64	6894	5.4	458	1950	2	7900	5.7	444						
						1951	5	8164	5.1	414	3	8847	456			
						1952	8	7600	5.4	408	6	8070	399			
						1953	15	7177	5.1	364	10	7534	385	10	7583	383
						1954	13	6780	5.3	359	8	7869	409	7	8202	425
						1955	6	7070	5.2	363	5	7274	372	5	7763	397
						1956	7	5731	5.1	290	6	7595	403	5	7371	370
						1957	4	7883	4.9	386	2	8120	415	2	7380	380
						1958	2	9310	5.5	507	1	7890	419	1	8698	467
						1959	2	7600	4.9	375	2	8650	458	2	8023	421
434560	2	7	6810	5.0	336	1951	1	6170	4.5	276	1	6580	342			
						1953	1	7350	5.1	375	1	8360	460	1	5723	292
						1954	1	4820	4.7	225	1	7770	397	1	8676	463
						1955	2	7005	4.7	333	2	7470	396	1	7532	401
						1956	2	5760	4.9	287	2	7885	390	2	7630	409
437533	1	4	8815	5.1	455	1950	1	8110	5.0	406	1	9160	541			
						1951	1	8880	4.8	431	1	7980	464			
						1952	1	8720	5.4	473	1	9120	526			
						1953	1	9550	5.3	508	1	8140	443	1	8720	500
438400	4	9	9413	5.5	512	1958	6	9062	5.5	499	4	8188	442	4	8559	458
						1959	3	9990	5.4	537	3	8550	469	3	8622	456
439203	5	29	9131	4.2	380	1947	4	10555	3.9	405						
						1948	2	11655	3.9	447						
						1949	3	11867	3.9	459						
						1950	4	9780	4.3	416	1	7510	406			
						1951	4	10045	4.3	424	1	7470	392			
						1952	3	9417	4.1	383	1	7420	396			
						1953	3	6617	4.5	296	2	7515	381			
						1954	3	11657	3.9	452				1	7565	408
						1955	1	8270	4.5	369						
						1956	1	8460	4.2	354						
						1957	1	3850	4.3	166						
439930	58	143	7178	5.3	374	1950	2	8260	5.6	464	1	7190	394			
						1951	14	7545	5.3	393	6	7320	395			
						1952	30	7589	5.1	384	13	7101	371			
						1953	28	7141	5.4	377	17	7339	381	17	7583	406
						1954	26	6705	5.3	354	15	7577	403	15	7238	392
						1955	22	7477	5.2	391	16	8336	420	10	7919	408
						1956	12	6792	5.1	345	3	7583	397	5	7301	372
						1957	4	7440	5.2	384	3	7300	390	3	7590	413
						1958	2	6910	5.4	373	2	8665	469	2	8121	433
						1959	3	7757	4.5	348	2	11600	586	2	9663	492
440745	2	6	6679	5.1	336	1952	1	6430	5.3	338	1	5550	292			
						1954	1	5620	5.4	305	1	5640	292	1	5232	274
						1955	1	6890	5.0	342						
						1956	1	8020	4.8	366						
						1957	1	6340	4.7	299						
						1958	1	8080	4.6	374						
441250	2	5	7360	5.6	412	1952	1	7100	6.0	427						
						1953	1	9940	5.5	549						
						1954	1	7860	5.5	434						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						JERSEY										
						1955	1	5890	4.7	279						
						1956	1	6790	4.6	326						
443390	3	5	6097	5.9	362	1952	2	6640	6.2	407	2	7475	427			
						1953	2	7170	6.4	456	2	7140	411			
						1955	1	4480	5.0	224	1	5680	310	2	7396	413
444268	2	7	8132	5.1	409	1953	3	7373	5.0	357	2	7210	379			
						1954	1	7140	5.4	384				2	7456	373
						1955	1	9380	5.5	516						
						1956	1	5920	5.6	329						
						1957	1	8870	5.4	477						
447268	2	4	5597	5.3	292	1953	2	5800	5.8	333	2	7705	394	2	7456	373
						1954	1	3890	6.0	235	1	5000	267	1	6529	349
						1955	1	6030	4.7	284	1	7340	394	1	5712	296
447337	1	4	7050	4.8	337	1953	2	7770	5.0	303						
						1955	1	5790	4.8	277						
						1956	1	6870	4.4	303						
448028	1	1	5830	6.1	358	1953	1	5830	6.1	358						
449541	2	3	6200	5.5	324	1954	2	4835	5.7	254	2	7835	444	1	6268	343
						1955	1	6800	5.3	361	1	5960	333	1	5712	296
449719	1	4	7283	5.8	422	1954	1	8390	5.3	440	1	8450	455	1	8131	463
						1955	1	6710	6.0	405	1	8720	455	1	7532	425
						1956	1	7010	6.4	447	1	7270	457	1	7870	448
						1958	1	7020	5.6	395						
450797	1	3	8900	5.4	479	1953	1	10580	5.6	591	1	9140	486	1	5723	292
						1954	1	6850	5.5	374	1	6750	357	1	8676	463
						1955	1	9270	5.1	473	1	7970	407	1	7532	401
450869	5	11	7281	5.1	364	1952	3	7367	4.9	358						
						1953	3	7173	5.4	386	2	7325	361	1	7456	373
						1954	2	6405	5.6	356	2	6050	314	2	6529	349
						1958	3	8450	4.5	378						
450982	1	2	6810	5.2	352	1954	1	6080	5.1	308	1	6860	349	1	6268	343
						1955	1	7540	5.3	396	1	7090	376	1	5712	296
452338	2	8	8420	5.0	416	1953	1	7310	5.1	369	1	7570	371	1	5788	293
						1954	1	9310	5.0	465	1	6710	334	1	5646	299
						1955	1	7950	5.3	423	1	6510	291	1	5646	299
						1956	1	7790	5.4	421	1	6670	346	1	5657	286
						1958	2	8440	4.6	386	1	9280	473	1	8851	460
						1959	2	9060	4.6	436	1	8470	400	1	6807	451
452342	3	5	4957	5.9	287	1954	3	4953	6.1	296	3	7483	378	3	6656	351
						1955	1	4450	5.5	244	1	7190	350	1	5646	297
						1956	1	4320	5.6	250	1	4370	198	1	5657	286
452663	2	6	7327	5.4	393	1951	1	6090	5.9	357	1	9700	523			
						1952	1	6970	5.4	379	1	8090	392			
						1953	1	5900	5.3	315	1	7460	359	1	8404	457
						1959	2	8400	5.3	447	1	8250	471	1	8208	474
						1960	1	8200	5.1	414	1	8620	487			
454049	1	1	8080	5.6	451	1954	1	8080	5.6	451	1	7460	381	1	7085	376
454188	1	1	7060	5.6	396	1956	1	7060	5.6	396	1	7300	377	1	5657	286
454623	5	5	6410	5.2	334	1956	4	6565	5.3	347	2	8060	440	2	7521	410
						1957	1	5790	4.9	282						
454720	1	1	6980	5.3	373	1951	1	6980	5.3	373						
455845	1	2	8920	4.8	429	1958	2	8920	4.8	429	1	8770	484	1	8851	460
458347	1	3	6713	5.2	354	1953	1	6680	5.4	359	1	6570	330			
						1954	1	8050	5.4	437	1	6310	326	1	6355	329
						1955	1	5410	4.9	267	1	5910	261	1	6922	359
460440	2	2	6870	5.5	376	1953	2	6870	5.5	376						
460560	1	1	9100	6.0	542	1953	1	9100	6.0	542						
460676	8	10	8102	5.3	425	1958	4	8968	4.7	419	2	8765	467	2	8698	467
						1959	4	7675	5.8	442	4	10815	552	4	8843	467
						1960	2	7180	5.3	379	2	7020	366	1	7619	405
461327	3	3	9960	4.6	453	1954	1	12120	4.1	494						
						1956	1	7230	4.9	356	1	7270	407			
						1957	1	10530	4.8	509	1	9580	476	1	8731	460
462828	1	1	7150	5.9	422	1953	1	7150	5.9	422						
463846	16	50	6129	5.4	329	1949	3	6200	5.6	352	2	9500	498			
						1950	9	6733	5.4	362	3	9480	473			
						1951	10	5364	5.1	277	5	8520	448			
						1952	6	5483	5.5	298	6	7962	418			
						1953	4	8103	5.2	417	4	8238	428	3	6606	334
						1954	8	8064	5.5	432	8	8796	455	8	8792	462

TABLE 15.—DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY BREED, BY YEAR OF FRESHENING—RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
						JLRSELY																
464308	2	5	9669	4.8	458	1955	5	6980	5.2	353	5	7624	387	5	8090	419						
						1956	3	7840	5.0	386	3	8507	421	3	8680	453						
						1957	2	5825	5.0	290	2	8360	428	2	7172	348						
						1950	1	11320	4.6	521												
						1951	1	7990	5.1	405	1	6640	446									
464614	17	48	8953	5.0	444	1957	1	9090	4.4	397	1	8330	455	1	9091	492						
						1958	1	8470	4.9	415	1	8790	458	1	8905	438						
						1959	1	11270	4.7	555	1	8270	438	1	8284	432						
						1953	3	9363	5.3	495	3	6713	549	3	7078	365						
						1954	10	8477	4.9	418	10	8595	445	10	8179	423						
465377	1	6	8453	4.6	385	1955	8	8738	5.1	436	8	7806	405	8	7969	410						
						1956	8	8596	5.1	442	7	8001	412	7	8557	446						
						1957	5	8494	5.2	437	3	9267	467	3	9447	465						
						1958	11	9374	4.9	452	7	8491	455	7	8599	452						
						1959	3	8940	4.9	429	5	9543	494	3	9084	472						
465708	22	33	8037	5.3	424	1953	1	9230	4.6	420	1	7840	402									
						1954	1	8820	4.4	385	1	8650	421	1	8066	426						
						1955	1	9370	4.6	434	1	8820	454	1	7968	412						
						1956	1	8160	4.7	384	1	8240	425	1	7706	387						
						1957	1	7290	4.6	335	1	8560	444	1	8426	441						
466294	3	7	6745	5.1	341	1958	1	7850	4.4	349	1	8170	407	1	7804	404						
						1954	2	8305	5.4	449	1	7330	599	1	7401	400						
						1955	8	8741	5.2	447	4	7393	406	3	7081	333						
						1956	11	7175	5.4	388	9	7487	406	9	7500	404						
						1957	4	9053	5.6	519	2	8405	455	2	7516	395						
466643	5	4	8905	5.5	486	1958	3	8587	5.3	459	3	7803	587	2	7451	395						
						1959	4	8573	5.3	451	3	9693	455	4	6837	424						
						1960	1	8930	4.6	409	1	7280	456									
						1953	2	6830	5.4	366	1	7370	384									
						1954	1	5080	5.2	265												
468196	2	3	5003	5.5	274	1955	2	7165	4.6	332	1	8550	443	1	7695	422						
						1956	1	4880	4.8	253				1	5058	254						
						1957	1	7750	4.6	358												
						1958	1	6220	6.4	399	1	7970	421	1	8698	467						
						1959	1	5950	5.8	344	1	8670	462	1	0622	456						
470112	1	2	8240	5.1	416	1960	2	10315	5.3	543	2	8210	413									
						1955	2	5205	5.6	295	2	6955	372	2	5990	325						
						1957	1	4400	5.2	228	1	5220	260	1	5941	324						
						1956	1	8110	5.0	402	1	8570	433	1	7292	361						
						1957	1	8370	5.1	430	1	8410	426	1	8251	397						
470985	27	73	7966	5.2	409	1950	5	8735	5.3	454	2	8515	423									
						1951	4	8090	5.3	428	2	7775	394									
						1952	9	7707	5.3	408	6	7758	405									
						1953	11	8063	5.3	422	9	7720	404	7	7727	419						
						1954	11	8306	5.1	428	7	7576	419	7	7222	402						
						1955	16	8523	5.1	431	11	8394	440	9	7703	418						
						1956	11	7411	5.4	397	10	7956	427	10	8130	441						
						1957	7	8267	4.9	409	6	8198	447	5	8493	457						
						1958	1	8450	4.9	415	1	9360	502	1	9167	487						
						472114	7	7	7646	5.4	403	1958	2	6405	5.5	346	1	8190	455	1	8698	467
												1959	2	9075	5.4	490	2	8640	461	2	8627	456
1960	3	7520	5.3	385	3							8203	429									
472180	1	1	5640	6.1	342							1955	1	5640	6.1	342	1	6120	335	1	5712	296
472181	1	1	6050	4.7	284							1958	1	6050	4.7	284	1	6810	349	1	9875	361
474826	18	27	7464	5.3	389	1956	4	8313	5.1	424	4	7648	597	4	7298	394						
						1957	9	6849	5.4	369	8	8123	416	8	7770	398						
						1958	6	8795	5.1	452	2	8930	470	2	8905	467						
						1959	5	6570	4.8	314	4	6548	548	4	7429	396						
						1960	3	8240	5.3	430	2	7690	403	1	6834	358						
475680	2	4	8325	5.1	428	1956	3	8780	5.1	457	2	9205	500	1	9167	487						
						1959	1	10410	5.3	552	1	9490	504	1	9745	514						
477690	1	1	6230	4.5	283	1956	1	6230	4.5	283	1	7060	399	1	6834	590						
478932	20	33	7352	5.3	387	1954	6	7672	5.6	418	6	7840	408	4	8061	411						
						1955	8	6605	5.0	370	6	9022	462	6	7727	388						
						1956	7	6016	5.8	348	5	8700	452	3	8339	422						
						1957	5	7747	5.2	598	5	9120	453	3	8386	447						
						1958	3	7443	5.1	382	2	8615	365	1	7238	373						
						1959	4	8335	4.8	403	5	9460	442	3	10308	453						
						1960	2	7945	5.4	423	2	8295	435									
						481614	1	6	8033	5.8	470	1954	2	6340	5.6	556	1	6790	364	1	7870	432
1955	2	8210	6.0	490	1							9880	491	1	7892	428						
1958	2	9550	5.9	563	1							9060	456	1	8851	460						
484657	19	28	6553	5.4	346	1955	9	6899	5.3	361	7	7527	392	7	7477	379						
						1956	9	5907	5.5	314	7	7463	584	7	7147	568						
						1957	4	7943	5.4	427	4	8228	425	4	7848	595						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HLRD AVERAGE MILK LB.	AVERAGE FAT LB.
JERSEY																
						1958	3	9720	4.9	458	2	8935	456	2	7881	404
						1959	3	7060	5.4	375	3	6930	369	3	7187	377
484914	1	3	7983	6.1	486	1959	2	8200	6.3	517	1	8250	418	1	9505	501
						1960	1	7550	5.6	424		8660	442			
486357	2	5	8721	5.6	483	1954	2	7580	5.6	417	2	6525	339			
						1955	1	8050	4.9	391	1	7630	420	1	6965	387
						1956	2	10055	5.5	359	2	8145	408	2	7325	386
486358	3	5	5780	5.3	303	1953	3	6670	5.1	341	2	7315	375	2	7456	373
						1954	2	4465	5.8	258	2	5000	266	2	6529	349
486929	1	6	7340	4.7	346	1953	2	7690	4.8	369						
						1954	1	7720	4.9	380						
						1955	1	6720	4.4	298						
						1956	1	6820	4.8	327						
						1957	1	7400	4.5	330						
490063	1	1	14410	5.4	774	1959	1	14410	5.4	774						
493025	5	12	7853	5.4	392	1951	1	6160	6.5	403						
						1952	2	6215	5.7	358	1	9130	466			
						1953	4	8678	4.8	386	2	7590	347	3	8121	420
						1954	1	5790	6.6	381						
						1955	1	5490	6.5	360						
						1956	2	5680	6.2	347	1	7350	398			
						1957	1	6030	6.5	393						
493505	7	15	8976	5.3	478	1958	8	9021	5.7	513	5	7646	402	5	8216	432
						1959	5	8420	5.4	452	4	10370	526	4	8644	454
						1960	2	7650	5.4	410	2	8590	428			
497204	2	2	6320	5.4	341	1957	2	6320	5.4	341						
497599	2	3	6758	5.0	334	1958	1	7030	4.3	303				1	9875	361
						1959	2	6635	5.1	337	2	7455	375	1	8240	414
499207	2	2	10635	5.7	606	1959	2	10635	5.7	606	2	9830	523			
500983	1	2	7960	4.8	380	1959	2	7960	4.8	380						
502114	3	3	9270	5.0	468	1959	3	9270	5.0	468	3	8623	436	2	9500	477
502220	5	9	9746	5.0	481	1958	2	8420	5.4	456	1	8100	449	1	8698	467
						1959	5	9306	5.1	468	4	12545	624	4	9064	479
						1960	2	10420	4.8	498	2	9350	437			
503552	5	12	7414	6.0	438	1954	1	5450	6.5	355	1	5500	314	1	6867	389
						1956	2	7455	5.6	413	2	9030	497			
						1957	2	7480	6.1	449	2	9005	509	1	7695	421
						1958	4	7993	5.9	474	2	3040	441	3	8895	469
						1959	3	7983	5.7	455	3	7880	417	3	8804	467
504893	1	2	6810	6.1	416	1959	2	6810	6.1	416	1	8140	412	1	7924	399
506331	7	9	8203	5.3	429	1958	4	7600	5.3	386	2	8735	440	3	3411	394
						1959	3	9767	5.2	509	3	9540	452	3	10093	481
						1960	2	9225	5.2	469	2	11500	578			
506502	3	4	9957	4.9	486	1958	2	8526	4.8	396	1	8500	407	1	8851	460
						1959	2	10775	5.0	531	2	10430	506	2	11074	509
507639	25	35	6841	5.3	359	1954	3	6690	5.0	337						
						1955	1	6690	5.3	355						
						1956	12	6890	5.4	363	6	7995	435	5	9117	473
						1957	6	6860	5.3	365	5	8696	440	5	9169	470
						1958	4	7593	5.1	384	3	9080	476	3	8782	462
						1959	6	7825	5.4	422	5	8726	463	6	7619	470
						1960	3	7053	5.1	361	3	7010	361	1	7238	344
509518	2	3	9055	5.8	522	1959	1	8380	5.7	480	1	10280	399	1	13320	499
						1960	2	9425	5.8	549	2	10050	373			
510736	7	7	5947	6.0	350	1959	5	5532	6.2	343	4	8438	459	4	8922	489
						1960	2	6985	5.5	366	2	11305	540	1	9723	500
514622	1	2	5235	5.3	280	1957	1	4320	5.0	215	1	7960	426	1	7761	435
						1958	1	6150	5.6	345	1	7740	385	1	7150	356
514628	2	3	7788	4.7	368	1958	1	9440	4.9	462	1	7220	364	1	9875	361
						1959	2	7455	4.7	354	2	7665	354	1	8426	386
515663	1	1	7380	6.1	448	1958	1	7380	6.1	448	1	9710	527	1	7837	424
516302	4	6	7566	5.8	431	1957	1	9120	4.8	436	1	10050	500	1	8731	460
						1958	2	6960	5.7	411	1	8310	475	1	9167	487
						1959	3	7190	6.0	433	3	8177	447	2	8977	494
517081	1	2	6750	5.0	335	1958	2	6750	5.0	335	1	9510	432	1	7815	404
517082	2	2	7485	5.2	375	1959	2	7485	5.2	375	2	6305	329	2	7330	383
519826	18	33	8035	5.4	423	1955	1	11010	3.9	434						
						1957	5	6526	4.9	312	4	8540	454	2	6704	355
						1958	13	7365	5.7	413	5	7910	427	4	7124	371
						1959	13	9905	5.3	516	7	8409	451	9	6859	451



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						JERSEY										
519939	4	5	6719	5.5	372	1960	1	11520	5.3	608	1	10170	487	1	9047	449
						1956	2	6860	5.2	357	1	7660	400	1	8099	417
						1958	1	4770	5.6	206	1	6940	351	1	9875	361
						1959	1	8170	6.5	529	1	7420	452	1	6208	474
						1960	1	8600	5.6	485	1	9400	460			
522990	1	5	9216	4.9	456	1959	4	9160	5.0	458	1	7760	416	1	8622	456
						1960	1	9440	4.7	447	1	8620	460			
524581	1	1	6720	5.7	382	1958	1	6720	5.7	382	1	7650	423	1	8404	441
526919	1	1	7040	5.1	356	1960	1	7040	5.1	356	1	6450	356	1	10137	524
526993	1	1	6960	5.7	393	1959	1	6960	5.7	393	1	6040	313			
530610	1	1	10200	4.9	499	1959	1	10200	4.9	499	1	8470	427	1	9102	493
533517	1	2	11465	5.0	575	1959	2	11465	5.0	575	1	9810	524			
535607	1	2	10170	5.1	511	1958	1	8050	5.2	415	1	9420	518	1	7837	424
						1959	1	12290	4.9	607	1	9820	524			
539737	14	25	7846	5.3	413	1958	12	7665	5.7	436	6	9118	471	5	8905	438
						1959	11	8227	5.3	428	11	7986	419	10	6211	452
						1960	2	6070	4.5	275	1	1760	82	1	7238	344
540080	3	9	7217	5.2	374	1958	2	8250	5.8	478	1	13050	462			
						1959	5	7180	5.1	365	3	7320	395	3	9181	378
						1960	2	6275	4.7	296	2	5900	290	1	7238	344
540148	1	3	9567	5.2	503	1958	2	9180	5.2	461	1	10350	489	1	10617	452
						1960	1	10340	5.3	547	1	10480	506			
542650	1	1	5860	5.4	317	1958	1	5860	5.4	317	1	6330	420	1	9080	464
543195	1	1	1610	4.6	74	1960	1	1610	4.6	74						
546648	3	4	7885	5.2	410	1957	1	3580	5.3	190	1	6350	332	1	8622	310
						1959	1	8650	4.8	415	1	7140	359	1	7637	392
						1960	2	11425	5.5	625	1	9610	522			
546672	2	4	8014	5.3	416	1958	2	8500	5.1	429	1	10400	495	1	10617	452
						1959	2	8440	5.2	437	2	9080	447	2	8944	444
550722	1	1	6190	5.7	355	1957	1	6190	5.7	355	1	7670	418	1	8644	469
552599	2	6	9268	5.0	449	1958	6	9857	4.8	460	3	8630	450	3	8851	466
553507	1	1	9060	5.2	469	1959	1	9060	5.2	469	1	9660	525			
557268	3	5	7393	5.4	398	1958	2	5660	5.5	310	1	7010	386	1	7717	415
						1959	3	8257	5.3	441	2	8900	472	1	6823	373
561487	1	1	8260	4.6	376	1959	1	8260	4.6	376	1	7740	396	1	7107	358

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
BROWN SWISS																						
34846	4	11	8622	4.0	349	1947	1	14770	4.1	600												
						1948	3	8037	4.1	332												
						1949	3	7873	4.2	328												
						1951	1	9060	4.2	383												
						1952	2	8330	4.1	342	1	10430	443									
						1953	1	10360	4.2	437	1	11020	445									
37565	1	1	8420	4.2	351	1953	1	8420	4.2	351												
39130	4	10	11402	4.1	460	1951	1	11820	3.6	432	1	8310	332									
						1952	1	7610	3.9	295	1	4140	179									
						1953	1	9400	4.2	390	1	11240	482									
						1954	2	11785	4.4	515	1	14410	608	1	10072	417						
						1955	3	13853	3.6	506	2	9215	359	2	8349	336						
						1957	1	12200	3.8	460	1	9060	352	1	8938	348						
						1958	1	13780	3.4	473	1	9300	354	1	8742	356						
						39593	1	2	15825	3.9	616	1955	1	18860	3.9	744						
						1957	1	12790	3.8	487												
42042	4	5	10266	3.9	397	1953	1	9020	3.9	348	1	11110	429	1	10758	421						
						1955	1	12270	4.1	497												
						1956	1	9180	3.9	356												
						1957	1	8160	3.8	308	1	8620	313									
						1958	1	13160	3.8	505												
42937	1	1	8830	4.0	352	1951	1	8830	4.0	352												
46379	1	2	8795	3.8	330	1953	1	10440	3.7	386												
						1954	1	7150	3.8	274												
48098	1	1	8550	4.3	372	1953	1	8550	4.3	372												
48344	1	5	10668	4.7	506	1952	1	9620	5.1	469												
						1953	1	10100	4.6	469												
						1956	1	11430	4.7	540												
						1957	1	10710	4.6	496												
						1958	1	11480	4.7	538												
48668	9	19	9944	3.9	383	1953	2	11025	3.9	419												
						1954	6	9092	3.8	344												
						1955	4	10700	3.9	414	1	10140	406	1	9102	353						
						1956	2	7585	3.8	284												
						1957	3	13903	3.8	523	1	10280	398									
						1958	2	10750	3.9	423												
48945	8	17	10348	4.0	411	1953	5	10728	3.9	425	2	11670	447	3	10279	391						
						1954	4	10400	4.0	425	4	11105	410	4	10066	394						
						1955	3	10653	4.2	443	3	9827	394	3	9661	373						
						1956	2	9985	4.1	406	2	11120	417	2	10715	410						
						1957	1	10500	4.3	447	1	9360	379	1	10355	399						
						1958	1	12830	3.7	474	1	11530	425	1	10671	407						
						1959	1	10830	4.0	433	1	11950	476	1	12927	506						
						51694	23	35	9591	4.0	376	1951	8	8098	4.1	331	3	12197	496			
						1952	5	10858	4.0	433	2	12925	525									
1953	5	8610	4.1	347	1	9330	370	1	9668	390												
1954	5	12652	3.8	475	2	12730	498	2	10617	425												
1955	5	11180	3.7	419	4	10170	419	4	9276	367												
1956	1	12270	4.0	489	1	10470	445	1	11609	483												
1957	3	10083	3.9	388	3	9763	411	2	10747	449												
1958	1	9790	3.7	367	1	12600	469	1	10617	413												
1959	2	11365	3.9	439	1	12510	494	2	11004	416												
51890	3	3	7580	4.5	333	1953	1	6770	4.8	322												
						1954	1	6240	4.7	295												
						1955	1	9730	3.9	381	1	10020	404	1	9189	377						
54162	9	22	8050	4.3	345	1953	7	7569	4.4	333	3	10257	421	2	9429	387						
						1954	5	7922	4.2	326	2	9715	398	2	9979	404						
						1955	4	10118	4.1	411	2	12185	530	1	11129	471						
						1956	3	10713	4.0	420	1	10760	455	1	11718	501						
						1957	2	9160	3.9	357	1	9250	395	1	10148	435						
						1958	1	1260	3.6	45												
54954	6	10	8981	4.4	394	1954	1	5380	4.2	223	1	9840	373	1	9788	364						
						1957	4	9685	4.2	409												
						1958	4	11903	4.5	532												
						1959	1	14390	4.0	576												
55722	13	27	10243	4.0	410	1953	5	10738	4.0	426	2	8770	358	1	7227	289						
						1954	7	10166	4.1	415	4	9023	360	3	8920	371						
						1955	5	10388	4.0	413	3	9260	383	3	8963	378						
						1956	4	7845	3.8	299	3	11277	449	2	8720	399						
						1958	4	11225	3.8	426	2	11490	455	2	9947	386						
						1959	2	11415	4.0	448	2	12770	528	2	11178	453						
59699	1	1	15640	3.9	606	1960	1	15640	3.9	606	1	11600	472	1	12284	504						
61099	1	1	9950	4.5	444	1954	1	9950	4.5	444												
61560	1	5	9062	4.3	387	1951	1	10120	4.5	452	1	11390	448									
						1952	1	9000	4.4	393	1	11800	464									

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
61566	12	20	11547	3.9	444	1953	1	11610	4.1	477	1	11510	485	1	13320	528
						1954	1	8660	4.3	376	1	12890	548	1	12263	489
						1955	1	5920	4.0	235	1	12620	514	1	11576	469
						1953	1	10930	3.6	390	1	11430	455	1	10279	391
						1956	4	12208	3.7	454	3	10690	406	3	10715	410
						1957	1	12230	3.6	444	1	9690	394	1	10355	399
						1958	8	12104	4.0	460	5	11780	474	5	11155	432
62227	2	12	9233	4.0	367	1959	5	12276	4.0	490	5	10840	436	3	11609	460
						1960	1	13630	3.6	494	1	12250	491			
						1951	1	9490	4.2	397	1	8490	330			
						1952	1	8290	4.4	365	1	7990	323			
						1953	1	7530	4.4	329	1	7850	316			
						1954	1	8430	4.2	350	1	9930	374			
						1955	1	8050	4.7	379	1	9620	380	1	8549	336
62228	20	43	11159	4.2	475	1956	1	8580	3.9	333	1	9130	356	1	9407	362
						1957	1	8080	3.8	311	1	9710	358	1	8938	348
						1958	2	9580	4.0	385	2	10740	422	1	8742	338
						1959	2	8835	3.9	345	2	9020	352	2	10192	406
						1960	1	10540	3.5	368	1	7960	321	1	9450	386
						1953	4	12005	4.3	507	4	12083	504	1	12709	550
						1954	5	10676	4.5	472	3	11723	499	3	10708	452
64541	1	3	12380	4.1	512	1955	4	10508	4.3	439	2	10780	459	2	11074	475
						1956	4	12158	4.5	541	2	14060	589	2	11440	468
						1957	1	15040	4.5	677	1	13350	588	1	14257	625
						1958	15	11114	4.3	473	7	12157	497	5	11770	483
						1959	8	9491	4.2	401	3	9690	415	3	11830	485
						1960	2	8170	4.0	329	2	8750	350	1	9450	386
						1959	2	12760	4.2	533	1	9210	425	1	9494	446
64837	3	6	8920	3.9	348	1960	1	11620	4.0	469	1	9520	404			
						1957	2	8680	3.7	318	1	8920	357	1	9429	367
						1959	3	9170	3.7	340	1	8890	352	1	10846	455
65397	8	21	9379	4.4	409	1960	1	8710	4.3	376	1	8760	343			
						1956	6	9312	4.4	413	2	11215	413	2	10715	410
						1957	6	8910	4.5	397	2	10760	421	2	10355	399
						1958	6	12730	4.3	542	1	13680	511	1	14028	509
66101	2	3	9890	4.4	428	1959	3	12043	4.3	513	2	12790	488	3	8862	487
						1953	2	11180	4.3	479	2	12760	527			
						1956	1	8600	4.4	377	1	10510	412	1	8982	356
						1959	3	7227	3.9	282	2	9620	387	2	11162	456
68357	2	3	10278	4.1	428	1957	1	7980	3.8	306	1	10970	446	1	8949	360
						1959	1	14150	4.4	628						
						1960	1	11000	4.3	470				1	11478	482
68741	6	7	10350	3.8	390	1955	1	6080	4.2	255	1	5600	226	1	5581	228
						1956	1	8400	3.7	307						
						1957	1	9700	3.6	352						
						1959	4	11745	3.8	439	2	11460	455	2	11865	458
69157	1	2	9280	3.7	345	1952	1	9230	3.6	335						
						1953	1	9330	3.8	355						
70012	2	5	16434	3.6	574	1958	4	16400	3.6	581	1	12140	442	1	11500	416
						1959	1	14980	3.6	544						
70221	29	49	8728	4.1	353	1954	5	7526	4.2	317	3	10110	417	3	9988	406
						1955	9	8133	4.0	322	5	9970	398	5	8877	368
						1956	13	8858	4.2	370	9	10506	420	10	9986	406
						1957	7	10081	3.8	383	6	10423	424	4	9865	411
						1958	9	10166	4.1	415	5	10764	432	5	9524	387
						1959	4	10625	4.0	421	4	10453	412	4	10083	408
						1960	2	9310	4.1	383	2	10475	446	1	10704	465
70757	1	3	10190	3.7	385	1955	1	13020	3.6	475	1	9520	379			
						1956	1	10830	4.2	454	1	10340	415	1	9897	384
						1957	1	6720	3.4	226	1	11410	453	1	9886	387
71763	31	60	9962	4.2	415	1954	1	11790	3.8	454						
						1955	2	9105	4.5	409	1	9730	375	1	9036	360
						1956	2	8450	4.3	360						
						1957	15	9195	4.2	383	6	10727	426	5	10093	426
						1958	19	10107	4.1	412	9	10217	408	10	8902	399
						1959	20	10264	4.0	419	15	11095	450	19	8533	426
						1960	1	9650	3.9	377	1	10570	414	1	9919	395
71920	3	4	11277	4.3	479	1954	3	11330	4.3	481						
						1955	1	10650	4.2	446	1	10000	395			
72394	1	1	8770	3.5	311	1959	1	8770	3.5	311	1	7840	332	1	8753	349
72896	16	35	10408	4.1	428	1951	1	8200	4.5	368	1	8830	341			
						1952	2	7745	4.3	326	1	7610	295			
						1953	2	7630	4.2	323	2	9560	386			
						1954	6	9827	4.1	401	2	11515	468	1	10072	417
						1955	6	10990	4.1	442	2	10705	403	2	10115	414

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTENTM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
							BROWN	SWISS									
						1956	2	9695	4.6	446		2	11525	478	2	9620	409
						1957	4	11470	3.9	448		3	11447	454	3	10333	411
						1958	4	11628	4.3	501		4	11153	462	2	11990	479
						1959	6	10915	3.9	427		5	10390	409	5	10861	437
						1960	2	11175	3.7	404		1	8760	344	1	9450	386
72898	5	13	9335	4.2	383	1955	2	11550	4.2	484		1	10510	407			
						1956	1	10570	3.8	400							
						1957	3	5390	4.6	250	2	7915	311		2	8682	344
						1958	4	8843	3.9	345	2	8875	340		2	8432	338
						1959	2	11150	3.9	431							
						1960	1	8150	3.7	305	1	9930	368		1	9221	356
73318	9	25	9752	4.3	424	1955	1	9550	4.2	404							
						1956	3	9520	4.6	434	3	10517	428		3	9418	366
						1957	5	7562	4.3	324	4	8878	557		4	8499	337
						1958	10	10325	4.4	453	5	10484	431		4	9816	401
						1959	5	8660	4.1	364	4	9883	388		3	10413	418
						1960	1	8820	4.0	356	1	10150	381		1	10573	396
74191	1	1	6060	4.0	242	1954	1	6060	4.0	242	1	5600	227		1	7706	301
75282	15	31	11602	4.1	473	1952	1	9440	4.4	417	1	9220	370				
						1953	2	9770	4.7	455	2	9070	364		2	9668	390
						1954	2	11160	3.9	435	1	9110	353		1	9407	377
						1955	6	13442	4.0	536	4	12408	473		3	10657	421
						1956	2	10785	4.6	495	2	11795	477		2	11500	443
						1957	5	11384	4.2	467	3	11717	425		2	11691	466
						1958	5	10736	4.2	454	2	12955	493		2	12116	486
						1959	6	12022	4.0	472	2	15080	593		2	14497	560
						1960	2	12020	4.1	497	2	12200	504		2	11685	474
75432	1	2	13830	4.1	559	1958	1	13780	3.9	542	1	14500	573		1	13614	520
						1959	1	13860	4.2	576	1	13560	537		1	14497	560
76657	2	5	10519	3.8	400	1954	1	7780	4.1	321							
						1955	1	6680	3.7	245							
						1957	1	8110	4.0	324							
						1958	1	14920	3.7	556							
						1959	1	12110	3.7	447					1	10617	362
															1	10497	380
76903	1	4	8900	3.7	329	1951	1	7170	4.0	289							
						1952	2	8990	3.7	328							
						1953	1	10450	3.6	372							
77715	10	10	10979	4.1	446	1959	7	11201	4.1	451	6	12207	493		4	11219	443
						1960	3	10460	4.1	432	2	10460	458		1	12695	533
78960	26	49	10306	4.1	416	1957	3	10510	4.4	452	2	11930	486		2	12688	519
						1958	30	10120	4.1	416	15	10256	417		13	8878	390
						1959	15	10730	4.1	437	12	10383	458		14	10275	429
						1960	1	11100	3.7	407	1	10390	410		1	8720	338
79318	1	3	13580	3.7	503	1957	1	15420	3.6	553	1	11200	458				
						1958	1	14050	3.7	515	1	13340	529		1	10617	413
						1959	1	11270	3.9	442	1	14200	574		1	11510	452
80036	3	9	8991	3.9	352	1954	2	9630	4.0	385	1	11470	405				
						1955	2	10320	3.9	402	1	14090	530				
						1956	1	10050	3.8	379	1	15310	572		1	12012	464
						1957	2	9085	3.9	352	2	11475	458		1	14039	550
						1958	1	8630	4.0	342	1	9450	371		1	8186	300
						1959	1	10910	3.9	426	1	14810	573		1	14497	560
81652	9	19	10151	4.0	404	1957	1	6880	4.2	286	1	10560	416		1	8840	352
						1958	13	9950	4.1	398	4	9853	391		4	9573	375
						1959	2	11745	4.0	462	1	11570	461		1	10649	427
						1960	3	9840	4.0	395	3	10577	417				
82405	2	6	10929	3.8	418	1955	1	15110	3.9	592	1	12080	467		1	11271	438
						1956	1	16000	3.9	617	1	12560	476		1	12186	471
						1957	1	13770	3.8	528	1	11810	473		1	11598	446
						1958	1	13250	4.1	539	1	12180	501		1	10333	414
						1959	1	12910	3.8	487	1	10050	408		1	11412	455
						1960	1	7650	3.7	282	1	10860	427		1	9919	395
82516	1	3	9477	3.9	371	1958	2	10210	3.9	398							
						1959	1	8010	4.0	318							
83625	3	6	11478	4.1	463	1957	1	9440	4.5	425							
						1958	4	12265	3.9	472	2	9170	365		2	9276	359
						1959	1	11410	4.3	493	1	10800	456		1	10846	453
85031	13	25	12300	4.1	500	1958	13	10930	4.1	453	6	10033	409		6	7948	377
						1959	11	12282	4.1	495	6	10265	418		7	8662	408
						1960	1	12120	4.0	483	1	10910	426		1	10780	419
85637	52	86	10019	4.0	401	1954	2	11125	4.2	467	2	12055	453		2	8971	361
						1955	15	9447	4.1	393	12	10440	405		12	9168	359
						1956	32	10208	4.1	415	23	9969	398		22	10529	427
						1957	11	9461	4.3	392	8	10184	421		8	10335	430
						1958	14	10019	3.9	392	8	10158	418		8	9757	393

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	AV. RECORDS NO.	YEARLY HERD MILK LB.	AVERAGE FAT LB.
						BROWN SWISS										
86252	9	13	7104	3.8	275	1959	10	10364	3.8	392	8	10615	436	10	8478	418
						1960	2	10715	3.9	411	1	12200	497	2	11036	454
						1953	4	7803	4.0	319	1	9320	381			
						1954	4	7113	3.8	278	1	9400	383	1	8676	368
						1955	3	8240	3.9	320	2	10275	421	2	8965	375
86489	1	4	13935	4.0	555	1956	1	9940	3.9	392	1	11370	455	1	8720	399
						1960	1	5110	4.3	218						
						1958	4	13935	4.0	555	1	12320	515			
						1956	2	7630	3.8	293	1	10420	405	1	10006	394
						1958	6	9542	4.3	412	3	10090	392	3	9134	352
87681	6	10	9814	4.4	432	1959	2	10370	4.4	450	2	9180	375	2	9592	368
						1959	7	12956	3.8	493	4	11070	468	4	13004	548
						1960	1	8520	3.9	333	1	9000	353	1	9450	366
						1953	1	13060	3.5	451	1	11320	454	1	10279	391
						1954	3	12643	3.6	460	3	11693	452	3	10159	397
87984	8	13	11732	3.7	430	1955	1	11040	3.4	376	1	10050	396	1	10780	414
						1956	1	13280	3.6	474	1	11080	426	1	10715	410
						1957	3	11250	3.6	404	3	9527	364	2	10481	420
						1959	4	11653	3.9	456	2	11750	469	3	8640	512
						1960	1	9920	3.5	349	1	6290	231	1	8517	320
89614	1	1	9920	3.5	349	1955	1	10600	3.7	393	1	11140	455	1	10791	436
						1956	1	11620	3.6	414	1	11210	421	1	10715	410
						1957	1	9590	3.6	342	1	12230	447	1	10355	399
						1959	2	6230	4.2	259	1	9510	412	2	5723	435
						1960	1	8400	3.7	313	1	8790	349			
91234	1	1	8400	3.7	313	1959	1	7260	4.1	298	1	11180	450	1	11412	455
						1956	2	10465	4.6	475	1	9020	348	1	8720	399
						1957	4	9303	4.1	382	2	11075	448	2	9548	448
						1958	3	10193	3.9	398	1	11150	437	2	6262	440
						1959	2	10935	4.2	458	2	11050	429	2	10611	420
92222	8	12	9625	4.1	393	1960	1	8600	4.1	352	1	11100	407	1	8720	338
						1955	2	7245	4.5	323	2	8480	340	2	7172	269
						1958	5	11824	4.4	522	2	9875	418	2	10475	444
						1959	2	10475	4.2	436	2	10435	425	1	12600	533
						1959	1	9980	4.2	420	1	8590	346	1	9799	399
94593	2	9	10288	4.4	450	1958	1	7680	4.2	323						
						1958	3	7803	4.2	329	1	12780	504	1	9745	382
						1959	3	9050	4.3	393	2	12410	509	2	11565	469
						1960	3	9817	4.1	406	3	10890	428	3	10646	431
						1957	2	10825	4.0	434	1	10570	438	1	9548	448
94606	1	1	9980	4.2	420	1958	3	10097	3.9	394	2	10095	395	2	8600	353
						1959	2	10480	3.8	406	1	9300	362	1	9701	415
						1959	1	10740	4.1	445						
						1960	1	13380	3.3	444	1	8290	336			
						1958	4	11860	4.0	479	2	12080	485	3	7986	489
94773	1	1	7680	4.2	323	1959	2	11505	4.4	497	2	11930	488	2	11489	463
						1959	1	11840	3.8	452	1	11290	391	1	10497	404
						1960	1	7890	4.1	323	1	11300	441	1	10802	425
						1957	1	12670	3.9	493	1	11610	441	1	10355	399
						1958	5	12336	4.0	488	4	11270	465	4	11693	431
95997	8	9	8884	4.2	376	1959	2	10100	4.4	435	2	11985	477	2	12677	507
						1960	1	8240	4.1	340	1	9050	352	1	9450	386
						1957	2	10825	4.0	434	1	10570	438	1	9548	448
						1958	3	10097	3.9	394	2	10095	395	2	8600	353
						1959	2	10480	3.8	406	1	9300	362	1	9701	415
96076	5	7	10278	3.9	404	1959	1	10740	4.1	445						
						1960	1	13380	3.3	444	1	8290	336			
						1958	4	11860	4.0	479	2	12080	485	3	7986	489
						1959	2	11505	4.4	497	2	11930	488	2	11489	463
						1959	1	11840	3.8	452	1	11290	391	1	10497	404
100513	2	2	12060	3.7	445	1960	1	7890	4.1	323	1	11300	441	1	10802	425
						1957	1	12670	3.9	493	1	11610	441	1	10355	399
						1958	5	12336	4.0	488	4	11270	465	4	11693	431
						1959	2	10100	4.4	435	2	11985	477	2	12677	507
						1960	1	8240	4.1	340	1	9050	352	1	9450	386
101807	3	6	11134	4.2	468	1958	4	11860	4.0	479	2	12080	485	3	7986	489
						1959	2	11505	4.4	497	2	11930	488	2	11489	463
						1959	1	11840	3.8	452	1	11290	391	1	10497	404
						1960	1	7890	4.1	323	1	11300	441	1	10802	425
						1957	1	12670	3.9	493	1	11610	441	1	10355	399
104152	2	2	9865	4.0	388	1958	5	12336	4.0	488	4	11270	465	4	11693	431
						1959	2	10100	4.4	435	2	11985	477	2	12677	507
						1960	1	8240	4.1	340	1	9050	352	1	9450	386
						1958	4	9665	4.3	410	2	10450	428	3	7005	396
						1959	9	10714	4.0	434	4	11298	446	7	7763	416
104309	7	8	11290	4.1	455	1960	4	11470	4.0	449	2	13035	515	2	12219	491
						1957	1	12670	3.9	493	1	11610	441	1	10355	399



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	AVERAGE MILK LB.	FAT LB.
						1960	BROWN SWISS									
						1960	2	11575	4.1	437	1	11370	420	2	11195	446
107380	1	1	17470	4.1	718	1960	1	17470	4.1	718	1	16000	608			
108542	6	10	11775	4.3	499	1956	2	12310	4.3	520						
						1957	4	11165	4.2	471						
						1958	3	11793	4.3	505						
						1959	1	12770	4.3	546						
109199	2	2	9415	4.1	383	1959	1	9200	4.1	377	1	10420	427	1	11031	463
						1960	1	9630	4.0	388	1	11870	468			
109762	1	1	13460	3.9	529	1959	1	13460	3.9	529	1	12700	451	1	12066	417
110871	1	1	11610	3.5	407	1960	1	11610	3.5	407	1	16650	643			
111658	1	1	6210	4.4	273	1957	1	6210	4.4	273						
113551	1	1	13800	4.5	619	1960	1	13800	4.5	619	1	12570	541			
113785	3	5	13150	4.2	539	1958	3	14360	3.8	549	1	14760	584	1	13614	520
						1959	2	13405	4.4	581	1	10380	447	1	11031	463
113925	1	1	7390	3.7	270	1959	1	7390	3.7	270	1	8570	324			
114128	5	5	12274	3.8	467	1959	2	14190	3.7	523	2	10770	370	2	10399	402
						1960	3	10997	3.9	430	2	10255	412	3	10061	412
116729	7	19	12145	4.0	482	1957	4	11445	3.7	416	2	11575	477	2	10633	408
						1958	8	13589	3.9	526	5	12306	489	4	12044	460
						1959	7	11827	4.1	481	5	12100	470	6	11443	453
116978	1	1	6340	4.1	261	1959	1	6340	4.1	261	1	9840	365	1	9211	338
120226	1	1	11260	4.2	471	1959	1	11260	4.2	471	1	8520	343	1	9799	399
120560	3	3	13580	3.9	530	1959	2	15295	3.9	588	2	14090	560	2	13036	504
						1960	1	10150	4.1	415	1	8030	306	1	9450	386

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	AVERAGE FAT LB.
M. SHORTHORN																
304	1	6	8702	3.9	340	1951	1	9550	4.2	401						
						1952	1	10860	4.0	438						
						1954	2	9040	3.8	339						
						1956	1	7450	4.0	295						
						1957	1	6270	3.6	228						
307	4	15	7802	3.8	294	1953	2	9535	3.8	359	1	7040	279	1	6605	250
						1954	3	9963	3.7	367	2	7070	274	2	6856	266
						1955	3	8960	3.9	350	2	6620	269	2	6813	259
						1956	2	4750	3.8	179	2	8160	327	2	6486	256
						1957	2	6805	3.8	259	2	7515	298	2	6747	264
						1958	1	9110	3.6	327	1	6870	268	1	6333	244
						1959	1	7750	3.8	298	1	7040	269	1	7281	280
						1960	1	8370	3.5	297	1	6350	239			
4194	1	1	5460	3.5	193	1957	1	5460	3.5	193	1	7080	274	1	6747	264
5186	7	13	7133	3.6	258	1950	2	7760	3.7	286						
						1951	2	8570	4.0	339	1	8860	331			
						1952	2	5230	3.9	203	1	8860	331			
						1953	4	7113	3.4	241	3	8027	331	2	7652	270
						1954	2	6805	3.7	248	1	11690	470	1	8131	373
						1955	1	7590	3.6	270						
7786	7	12	7544	4.1	304	1954	4	8013	4.2	338	3	8300	320	1	5832	219
						1955	4	7753	4.1	316	4	8700	351	4	7469	299
						1956	3	7247	3.8	273	2	8450	340	2	7990	324
						1957	1	7250	3.3	237	1	6600	255	1	7172	282
8335	2	4	7228	4.6	331	1955	1	6560	4.2	273	1	7590	312	1	6333	263
						1956	2	7915	5.1	396	2	8250	332	1	8121	303
						1957	1	6520	4.0	259	1	9720	382	1	7913	312
8647	4	4	7693	4.4	326	1956	2	8370	4.3	352	2	8840	349	2	6056	314
						1958	1	3750	5.4	203	1	8160	274			
						1959	1	10280	3.8	396						
16876	1	3	7250	4.0	292	1951	1	10820	4.1	443						
						1952	1	3670	4.1	151						
						1953	1	7260	3.9	281						
18910	6	9	6832	4.1	278	1953	1	9360	3.9	366						
						1954	2	7695	3.9	299	1	7240	281	1	6856	266
						1955	3	5733	4.2	239	2	7250	294	2	6813	259
						1956	2	6755	4.3	294	1	7070	238	1	6486	256
						1958	1	7450	4.2	315	1	7540	294	1	6333	244
18911	1	1	3760	3.7	138	1953	1	3760	3.7	138	1	6890	277	1	7608	300
22559	7	11	7201	4.1	294	1952	2	5680	4.1	229	2	7850	307			
						1953	4	7420	4.0	302	4	7793	306	3	7314	281
						1954	2	6460	3.9	250	2	7500	288	2	6459	253
						1955	1	6060	3.6	216	1	7070	258	1	6573	242
						1956	2	7280	4.2	308	2	9010	333	2	6878	273
25722	1	1	7930	4.1	327	1959	1	7930	4.1	327	1	8880	400	1	8840	393
26666	1	1	4630	4.2	192	1959	1	4630	4.2	192	1	9060	408	1	8796	403
29887	7	14	8711	3.9	336	1953	6	8623	4.1	347	3	7940	312	1	7314	281
						1954	2	9425	3.9	367	1	9460	380	1	8131	373
						1955	3	8277	3.6	296	2	7850	332	2	6333	263
						1956	3	6883	3.8	262	3	7620	326			
33409	4	13	8308	3.4	285	1954	2	8880	3.4	301	2	9000	331	2	9352	355
						1955	3	8990	3.5	318	3	8810	322	3	8709	322
						1956	3	8970	3.5	324	2	10430	379	2	7695	281
						1957	2	7245	3.6	258	2	8085	317	2	9036	331
						1958	2	9800	3.8	369	2	10190	378	2	8077	291
						1959	1	7670	3.9	297	1	9450	356	1	9080	338
35946	1	1	7420	3.9	286	1958	1	7420	3.9	286	1	11310	416	1	9832	362
39454	1	3	8920	3.9	352	1956	1	8850	3.9	349	1	8000	315	1	6486	256
						1956	1	9380	4.0	373	1	7370	289	1	6333	244
						1959	1	8530	3.9	335	1	7570	290	1	7281	280
47947	1	1	3590	4.0	142	1953	1	3590	4.0	142						
49273	1	1	6290	3.9	246	1953	1	6290	3.9	246	1	6050	241	1	7608	300
64218	2	7	6395	4.4	277	1954	1	7050	3.9	278	1	7140	277	1	6856	266
						1955	1	6090	3.8	232	1	6970	284	1	6813	259
						1956	1	4610	4.1	189	1	8330	328	1	6486	256
						1957	1	6900	3.9	268	1	6950	267	1	6747	264
						1958	1	6600	4.8	314						
						1959	2	6245	3.7	232	2	7705	300	2	7281	280
73902	3	7	7288	4.0	286	1954	1	8290	3.9	322	1	7600	288	1	5832	219
						1955	4	7165	3.9	276	2	9010	360	2	7407	293

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						M. SHORTHORN										
85779	3	3	7597	3.4	251	1956	1	7670	4.0	305	1	10430	402	1	8121	303
						1957	1	6670	4.2	281						
90821	1	1	8620	3.7	321	1957	1	7600	3.1	236	2	8000	267	2	7968	286
						1959	2	7595	3.5	259						
95092	2	4	6519	4.1	269	1955	1	8620	3.7	321	1	8590	330	1	7913	317
						1955	1	6960	4.5	316	1	7720	295	1	6300	240
						1956	1	7400	4.2	311	1	8530	327	1	6736	253
						1957	1	6540	4.4	287	1	7570	289	1	7368	282
104355	1	1	6810	4.2	286	1960	1	6070	3.8	232	1	7360	275			
						1959	1	6810	4.2	286	1	9820	391	1	9766	371
106779	1	1	11190	4.5	503	1955	1	11190	4.5	503						
119490	1	3	10867	3.4	372	1958	3	10867	3.4	372	1	9660	372	3	6140	331
124372	1	2	10605	3.7	393	1958	1	10260	3.7	379	1	10960	404	1	9832	362
						1959	1	10950	3.7	406				1	11282	412
131677	1	1	12570	3.5	444	1957	1	12570	3.5	444	1	7950	309	1	8001	305
136443	2	2	10835	3.7	401	1956	2	10835	3.7	401	2	10255	387	2	7848	305
137067	2	2	6620	3.8	248	1959	2	6620	3.8	248	2	7945	309	2	7281	280
153207	1	1	7830	3.5	277	1959	1	7830	3.5	277	1	7770	305	1	7281	280
2036764	1	2	9270	4.5	417	1947	2	9270	4.5	417						
2061092	2	2	10705	3.6	377	1949	1	12350	3.3	413						
						1950	1	9060	3.8	340						
2074210	1	1	5120	4.3	220	1954	1	5120	4.3	220	1	6910	274	1	6823	268
2084694	2	3	10328	4.1	423	1953	2	10740	4.2	453	2	10620	413	2	9254	374
						1954	1	9410	3.6	334	1	10930	405	1	9995	416
2118785	1	2	9660	4.1	396	1956	1	10430	4.2	441	1	8900	354	1	7913	311
						1957	1	8690	3.9	351	1	8410	320	1	7837	310
2129392	1	3	7807	3.9	302	1952	1	10830	3.8	410	1	7930	311			
						1954	1	10610	3.9	418	1	7170	288	1	6823	268
						1955	1	1980	4.0	79	1	7270	274	1	5723	223
2146013	5	9	8266	4.1	336	1954	2	9230	4.1	379	1	7400	309			
						1955	3	7873	4.0	317	3	8660	357	3	7049	283
						1956	3	7856	4.0	313	3	8767	347	2	8121	303
						1957	1	6356	4.3	270	1	7460	292	1	7913	312
2233656	1	3	7157	3.9	279	1952	1	5730	3.9	222	1	9210	358			
						1953	1	7750	4.0	308	1	8600	347	1	6144	237
						1954	1	7990	3.9	308	1	7840	296	1	6823	268
2422178	10	15	7964	4.1	322	1954	1	8630	4.0	350	1	6540	321			
						1955	5	7264	4.0	290	5	8472	340	4	6635	274
						1956	2	7925	4.3	339	2	8020	328	1	7990	374
						1957	4	9076	4.0	361	4	9598	375	4	7208	274
						1958	1	10040	3.8	361	1	6660	342	1	7815	306
						1959	2	9255	4.2	391	2	7720	301	1	8993	343



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
AYRSHIRE																
80257	14	49	8562	4.0	340	1950	3	8887	4.0	356						
						1951	2	9295	4.1	384	1	11430	470			
						1952	2	9030	3.8	344	1	11740	460			
						1953	4	8178	4.3	352	3	8997	357	3	9120	367
						1954	3	8000	4.0	312	3	8127	338	3	8091	315
						1955	4	7953	4.0	317	4	7800	324	4	7962	319
						1956	1	10040	3.6	357	1	11190	462	1	9112	358
						1957	1	8740	4.0	348	1	8570	331	1	9614	382
						1959	1	9720	3.4	327	1	7560	288	1	8426	335
82620	1	1	9230	4.5	415	1953	3	7680	4.1	313	3	5147	203	2	6475	249
						1954	9	7540	4.0	299	9	8630	348	7	7249	273
						1955	10	8735	4.0	347	8	8164	327	8	8287	327
						1956	10	9677	3.9	377	9	8734	343	9	8371	337
						1957	8	10220	3.9	402	7	9777	383	7	9320	366
						1958	6	8927	3.9	351	5	10952	442	3	9763	376
						1959	3	7797	3.7	291	3	8723	351	3	8938	358
82620	1	1	9230	4.5	415	1959	1	9230	4.5	415	1	14620	798	1	8949	366
83087	6	17	9183	4.0	366	1953	1	9400	4.2	397	1	9360	389	1	9875	399
						1954	4	8185	4.0	326	1	9250	361			
						1955	2	9965	4.1	407	2	10585	403			
						1956	3	9777	4.2	406	2	9150	373	1	9701	380
						1957	1	7640	4.5	346	1	8600	374	1	10268	404
						1958	2	10300	4.2	421	2	11065	456	1	9363	392
						1959	4	10040	3.9	383	3	9687	405	4	7606	401
83630	22	36	7960	4.1	328	1951	1	9420	4.2	395	1	9670	392			
						1952	1	8060	4.1	333	1	10750	443			
						1953	2	8045	4.4	349	1	9950	387	2	7963	317
						1954	5	8202	4.1	336	5	8488	347	4	7949	316
						1955	7	8001	4.3	339	7	9103	365	5	8077	320
						1956	4	8288	4.1	339	4	9893	385	4	9164	356
						1957	4	7713	4.3	333	4	9465	384	4	8369	345
						1958	4	10253	4.1	405	3	9930	377			
						1959	6	6815	3.8	268	4	10473	400	6	6491	364
						1960	2	10030	4.1	410	2	9710	373	2	9805	377
84978	1	1	11090	4.2	467	1958	1	11090	4.2	467	1	11220	431	1	8807	353
86390	5	6	9183	4.5	413	1957	1	6900	4.5	312	1	10440	412	1	10061	400
						1958	3	8290	4.6	380	2	10370	425	1	8317	331
						1960	2	10405	4.3	451	2	13150	644	1	8993	366
86601	17	30	7594	3.9	312	1953	2	7455	4.2	312	2	8600	309	1	9429	323
						1954	7	7711	4.4	332	7	7863	322	3	7012	268
						1955	8	7525	4.3	320	7	8437	344	6	8190	340
						1956	3	8637	4.2	363	3	8283	352	3	8451	353
						1957	5	8850	4.2	366	5	8864	340	4	8328	321
						1958	2	7120	4.0	280	1	9170	334	2	8164	311
						1959	3	6957	3.6	244	3	9743	367	2	7865	296
86779	4	4	7008	4.1	284	1955	1	9030	4.1	372	1	11370	413	1	8916	317
						1956	1	8260	3.8	311	1	10400	401	1	9941	370
						1957	2	5370	4.3	227	2	7560	286	2	8295	319
86898	1	2	5130	3.8	193	1957	1	5210	3.9	202	1	8590	347	1	7815	292
						1958	1	5050	3.6	184	1	8650	329	1	8567	310
87357	11	19	8420	4.1	342	1955	2	9570	4.5	421	2	10575	411	1	8971	373
						1956	6	8353	4.1	350	6	9110	351	6	8070	325
						1957	6	7393	4.0	298	6	9303	365	6	9036	349
						1958	3	6907	3.6	249	3	8710	330	2	7788	289
						1959	1	6300	4.1	260	1	11100	438	1	9570	387
						1960	1	10110	3.6	363	1	13490	535	1	10551	417
87503	2	2	11765	4.4	515	1960	2	11765	4.4	515	2	11650	485			
88074	1	2	9565	4.1	389	1957	1	9410	3.9	370						
						1958	1	9720	4.2	408	1	11490	472			
91883	2	3	8740	4.6	401	1959	2	7320	4.3	317	1	11110	472	2	6682	532
						1960	1	10160	4.8	484				1	8884	365
92173	1	2	6270	4.2	264	1955	1	7630	4.4	335	1	11480	416	1	8916	317
						1956	1	4910	3.9	193	1	11400	424	1	9941	370
92297	5	5	8172	4.4	357	1957	2	5970	4.5	262	2	9825	403	2	7096	303
						1959	3	9640	4.4	421	3	10397	447	1	9941	422
92422	4	4	10413	4.0	413	1959	2	10120	4.1	411	2	10025	412	2	9919	397
						1960	2	10705	3.9	415	2	12265	481			
94066	1	1	9030	4.3	390	1953	1	9030	4.3	390						
94122	11	17	9642	4.1	390	1955	4	8680	4.1	356	3	9720	396	2	8704	359
						1956	7	9883	4.3	422	7	9944	397	4	9540	380
						1957	3	9967	3.9	387	2	9975	406	1	10115	436
						1959	2	9635	4.2	408	2	10315	423	1	9766	389
						1960	1	12840	3.6	468	1	13210	575			
94852	17	23	9638	4.1	396	1958	1	9030	4.0	357	1	9450	389			
						1959	18	9139	4.1	374	14	10779	449	12	8119	444



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
AYRSHIRE																
						1960	4	11083	3.6	419		4	11333	460	4	10260 415
95368	1	3	7367	3.7	273	1954	1	8640	3.9	333	1	8660	312	1	7325	256
						1955	1	5150	3.7	189	1	10360	382	1	8916	317
						1956	1	8310	3.6	297	1	11130	416	1	9941	370
95384	3	5	11292	4.5	514	1958	2	12930	4.9	630	1	10790	462	2	6742	518
						1959	2	9190	4.6	417	2	9610	408	2	10622	447
						1960	1	12950	4.4	572	1	11530	483			
96258	2	3	9228	3.8	358	1959	1	7650	4.2	324	1	7250	264	1	7303	257
						1960	2	8195	3.6	306	1	10100	346	2	7957	284
96468	3	3	10553	4.0	417	1959	3	10553	4.0	417	3	9780	380	3	9763	391
97269	5	10	9440	4.2	397	1956	2	9780	4.3	409	2	8305	329	2	8023	335
						1957	4	9228	4.3	395	4	9365	384	4	9096	364
						1958	2	9730	4.3	412	2	10900	456			
						1959	2	9805	4.1	398	1	9670	450	2	8551	359
98367	1	1	9780	3.9	381	1959	1	9780	3.9	381	1	10490	410			
98643	5	9	9103	4.2	377	1957	1	3550	4.3	153						
						1958	6	10357	4.3	437	4	9085	365	5	5936	380
						1959	2	9900	4.1	390	2	11110	447	2	9898	394
99037	5	7	7699	4.0	307	1954	5	8352	3.9	329	5	9700	354			
						1955	1	4000	4.6	166	1	13370	547			
						1956	1	5500	4.2	228	1	18400	624			
99088	4	5	8613	3.9	339	1958	2	8785	4.2	368	2	10030	380			
						1959	3	7960	3.8	302	3	9577	371	3	8945	353
101527	2	2	12085	4.4	523	1959	1	12500	4.2	523	1	10440	408			
						1960	1	11670	4.5	523	1	11670	486			
101662	3	5	7756	4.1	315	1958	1	6590	4.2	274						
						1959	4	8043	4.0	327	3	10997	457	4	7287	375
101756	1	3	8493	4.2	358	1953	1	8970	4.1	366						
						1954	1	8030	4.3	344						
						1956	1	8480	4.3	364						
102814	1	1	10040	3.9	393	1960	1	10040	3.9	393	1	10490	385			
102855	1	2	11555	3.6	418	1958	1	12370	3.5	437	1	11400	472	1	9930	405
						1959	1	10740	3.7	398	1	9390	388	1	9548	399
104713	2	2	12290	4.1	505	1959	1	9900	4.0	400	1	6870	256	1	8426	355
						1960	1	14680	4.2	610	1	11440	434	1	9461	396
104768	4	7	12588	3.9	494	1959	6	13078	3.9	512	4	9375	387	6	7242	413
						1960	1	11760	3.1	364	1	10530	453	1	10551	417
104833	1	1	10820	4.3	470	1960	1	10820	4.3	470	1	11800	488	1	10170	409
107869	1	1	3060	4.8	147	1959	1	3060	4.8	147	1	11300	453	1	9766	369
110758	1	1	10130	4.6	465	1960	1	10130	4.6	465	1	3630	212	1	8993	366
110902	1	3	9680	4.2	408	1958	3	9680	4.2	408	1	10310	417	3	7100	467

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
GUERNSEY																
208105	1	3	7900	4.9	385	1947	1	8550	4.7	405						
						1948	1	7940	4.9	385						
						1949	1	7210	5.1	364						
216866	1	2	8200	4.3	350	1951	1	9050	4.2	384	1	6370	362			
						1953	1	7350	4.3	316	1	5910	296	1	6714	349
218782	2	2	7825	4.7	372	1947	2	7825	4.7	372						
223681	1	2	7270	5.1	364	1947	2	7270	5.1	364						
237407	1	1	8000	5.0	398	1950	1	8000	5.0	398						
243382	1	3	10110	5.4	545	1949	1	9370	5.9	556						
						1950	1	10350	5.4	557						
						1952	1	10610	4.9	523						
248741	6	7	7304	4.7	339	1950	3	7360	4.2	312						
						1951	1	5410	5.6	300						
						1952	1	7750	5.4	420	1	8380	424			
						1953	2	7510	4.9	361	2	7600	370	2	7243	354
250298	1	2	6735	4.2	282	1947	1	8460	4.2	359						
						1949	1	5010	4.1	204						
256119	1	8	7190	5.9	426	1947	5	7220	5.8	418						
						1948	1	7500	6.0	447	1	9500	521			
						1949	1	7280	6.1	445	1	8040	449			
						1950	1	7250	6.1	442	1	7740	404			
						1952	1	6920	5.5	378	1	7580	394			
						1953	1	6910	6.4	439	1	7390	386			
260741	1	3	8090	4.8	387	1948	1	9040	4.8	433						
						1949	1	8210	4.5	373						
						1950	1	7020	5.1	355						
263030	1	7	8447	4.9	410	1947	1	10370	4.7	492						
						1948	1	7850	4.9	385						
						1950	1	7330	5.6	414						
						1951	1	6400	4.8	310	1	7500	340			
						1952	1	8850	4.9	432	1	7960	379			
						1954	1	9130	4.5	412	1	7720	355	1	7510	362
264489	2	2	9145	4.8	431	1952	1	9310	4.7	433						
						1957	1	8980	4.8	429	1	8430	425	1	7565	370
265602	26	106	8390	4.8	399	1948	5	7906	4.8	377	1	8880	447			
						1949	12	8458	4.8	404	3	7057	355			
						1950	14	8221	4.9	399	6	9060	404			
						1951	18	8056	4.8	385	11	8699	429			
						1952	16	8031	4.8	382	9	8560	412			
						1953	13	8551	4.9	414	11	8488	394	8	8427	407
						1954	10	9689	4.7	457	8	8590	389	7	9206	421
						1955	7	9290	4.7	439	6	8710	399	6	8539	384
						1956	5	8728	4.6	402	4	8550	400	4	8616	408
						1957	4	9018	4.3	382	3	8057	378	3	8139	389
						1958	2	9720	4.3	407	1	7860	380	1	7794	375
269123	3	6	7790	5.1	396	1949	1	6770	4.8	322						
						1950	1	9330	5.0	465						
						1953	1	7910	4.6	365	1	9600	445	1	8753	433
						1954	1	8950	4.8	426	1	8610	411			
						1957	1	8830	5.6	491	1	8570	457	1	7924	393
269867	1	6	11093	4.4	491	1948	1	11270	4.3	487	1	9270	461			
						1949	1	8380	4.4	372	1	10550	479			
						1950	1	13590	4.0	548	1	9060	425			
						1951	1	11570	4.7	541	1	7630	358			
						1952	1	10220	4.8	493	1	8760	382			
						1955	1	11530	4.4	504	1	8140	420	1	9592	437
270309	2	4	5349	5.1	272	1949	3	4820	5.0	242						
						1950	1	3910	5.1	198						
270666	4	11	9131	4.7	430	1950	2	8815	5.0	438						
						1951	3	8763	4.7	410						
						1952	2	11355	4.7	524	1	9200	519			
						1953	1	10270	4.6	476	1	9310	507			
						1954	1	10320	4.7	483	1	9030	475			
						1956	1	9530	4.5	427	1	9410	467			
271040	1	3	8777	6.3	550	1947	1	9080	6.1	557						
						1948	1	7760	6.4	496						
						1949	1	9490	6.3	597						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
271911	1	2	8345	5.4	454	1950	1	9930	5.6	555	1	10670	517			
						1953	1	6760	5.2	352	1	9830	426	1	9287	431
273331	1	3	10000	5.1	506	1954	1	11050	5.2	574	1	8730	459	1	9679	488
						1956	1	9500	4.8	452	1	7640	397	1	9363	469
						1957	1	9450	5.2	493	1	13590	701	1	9254	467
281589	1	2	6105	5.2	312	1951	1	6850	4.9	336						
						1952	1	5360	5.4	288						
282782	23	54	7511	4.7	348	1947	2	14985	4.8	715						
						1948	2	14445	4.7	677						
						1949	1	4160	4.9	203						
						1950	3	6480	4.8	319	1	4360	230			
						1951	6	8793	4.9	451	3	9853	482			
						1952	4	9130	4.7	419	3	9220	401			
						1953	14	3757	4.7	406	12	8703	408	12	8290	398
						1954	8	7360	4.4	325	7	10086	429	4	10415	457
						1955	6	7883	4.4	346	6	9667	416	4	8330	383
						1956	3	8027	4.3	344	3	9270	382	2	10519	440
						1957	3	8080	4.8	390	3	8270	406	3	8266	397
						1958	2	4025	5.0	197	1	3160	150			
284597	10	40	7732	4.7	356	1950	2	7620	5.1	377	1	6490	329			
						1951	5	7294	4.9	350	4	7968	381			
						1952	5	8554	4.7	402	5	7512	359			
						1953	5	8468	4.4	374	5	8508	368	4	7393	350
						1954	7	7587	4.8	361	7	7564	359	3	8077	384
						1955	7	8939	4.6	404	7	9031	404	7	7913	365
						1956	4	9160	4.4	405	4	3620	371	4	8878	383
						1957	3	8720	4.2	361	3	8867	393	3	9178	391
						1958	1	8930	4.7	420	1	9040	396	1	7717	396
						1959	1	6320	4.3	269	1	8700	425	1	8785	425
285271	2	6	7135	4.7	333	1948	1	8850	4.7	415						
						1949	2	7275	4.8	349						
						1950	1	6110	5.6	340						
						1951	1	5340	5.0	268						
						1952	1	5500	4.9	270						
289084	1	1	8690	4.9	430	1949	1	8690	4.9	430						
289820	13	43	6886	4.9	338	1947	2	5175	5.3	272						
						1948	2	7235	5.0	363	1	6560	322			
						1949	4	7425	5.0	368	1	7540	345			
						1950	7	6451	5.0	322	3	6213	281			
						1951	4	7303	4.8	346	2	7785	370			
						1952	5	7226	4.6	333	3	7803	350			
						1953	5	7094	4.6	327	4	7668	337	4	7061	320
						1954	5	7254	4.7	339	4	8003	344	2	7500	323
						1955	2	6630	5.0	329	2	8440	397	2	7341	348
						1956	2	8305	5.0	420	2	8875	407	1	8437	384
						1957	2	8685	4.7	408	2	9365	435	2	8344	388
						1958	1	5970	4.4	264	1	9000	411	1	8589	392
						1959	1	9100	5.3	478	1	9840	527	1	9396	488
						1960	1	9890	4.7	469	1	10260	522	1	9756	488
290210	1	3	6150	5.4	333	1948	1	5720	5.3	301						
						1949	1	6500	5.2	338						
						1950	1	6230	5.8	360						
290595	1	1	12240	4.0	493	1955	1	12240	4.0	493	1	7420	352			
290779	2	2	9510	5.1	480	1952	1	7630	5.1	390						
						1957	1	11390	5.0	570	1	7150	352			
293524	17	37	6750	4.7	319	1950	6	6355	4.7	298						
						1951	8	6673	4.9	326	1	8860	384			
						1952	8	6869	5.0	344	3	9100	458			
						1953	7	6753	4.9	334	5	8554	405	4	8344	405
						1954	3	5117	4.4	226	3	7217	328	3	6413	300
						1955	4	6515	4.7	306	3	9300	399	4	8126	353
						1956	1	4370	4.5	197	1	7780	361	1	8458	360
294227	1	1	8580	4.5	386	1952	1	8580	4.5	386						
301080	4	21	8638	4.8	416	1950	1	10530	5.1	539						
						1951	4	9698	5.1	492	1	10480	541			
						1952	3	9177	5.0	461	1	12310	569			
						1953	4	8798	4.7	408	1	13010	577	1	11183	534
						1954	3	8640	4.9	418	1	11040	540	1	11042	530
						1955	2	8020	4.4	349						
						1956	2	5860	4.5	267						
						1957	1	8010	4.1	325						
						1958	1	8250	4.5	370						
303094	1	1	7870	4.7	374	1948	1	7870	4.7	374						
303154	36	88	8436	4.6	392	1951	8	9055	5.0	450	3	9110	454			
						1952	25	8366	4.6	390	14	8299	402			
						1953	20	8555	4.5	386	16	7359	346	13	7748	364
						1954	13	8137	4.5	368	13	7472	346	7	7968	367
						1955	13	8841	4.6	406	12	8668	406	12	8192	380
						1956	2	10625	4.7	488	1	8610	412	1	8491	408
						1957	3	9803	4.6	448	2	8470	410	2	8667	417

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTM. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
GUERNSEY																
303522	6	7	7247	4.9	354	1958	2	11755	4.5	521	1	10410	499	1	9581	467
						1959	2	9460	4.7	440	1	9610	470	1	10061	499
						1954	2	7620	4.9	374	1	7250	357	1	7249	382
						1955	3	7237	4.6	326	3	8350	416	3	8811	434
						1958	1	8720	5.8	508	1	9790	470	1	8949	446
306546	6	18	7642	4.9	379	1959	1	3940	4.7	184	1	6710	278	1	9211	441
						1951	3	7440	5.1	384	2	7025	343			
						1952	4	8383	5.0	420	3	7053	330			
						1953	4	8928	4.9	437	4	8573	403	3	8738	411
						1954	2	8800	5.3	466	2	9390	450	1	10475	499
						1955	1	7300	5.2	383	1	9260	451	1	8066	403
						1956	1	7890	5.4	425	1	7270	359	1	9145	429
						1957	2	6710	4.9	326	1	8510	377	1	10453	497
306647	27	66	7358	5.1	372	1958	1	6220	4.3	268	1	8160	407	1	8753	392
						1951	2	8580	5.4	450	1	10940	554			
						1952	9	7874	5.2	406	7	8977	437			
						1953	22	7246	5.2	376	18	8317	397	11	8021	380
						1954	12	6930	5.0	342	12	7924	376	6	8211	387
						1955	11	7432	5.0	371	11	8098	388	9	7548	359
						1956	4	6825	5.1	351	4	7363	365	2	6230	311
						1957	3	9170	4.7	435	3	9867	459	3	8466	396
						1958	2	10380	5.0	512	2	9310	432	2	9625	467
						1959	1	10860	4.5	489	1	6910	330	1	9243	423
308620	1	2	9420	4.7	440	1955	1	8570	4.7	405	1	10210	489	1	9548	447
						1956	1	10270	4.6	475	1	8720	424	1	9385	432
308632	40	86	8061	5.0	403	1949	1	7760	5.3	409						
						1950	4	6968	4.8	331						
						1951	6	7768	5.1	399	1	9580	441			
						1952	9	8507	5.2	447	4	10283	471			
						1953	15	8425	5.1	427	12	9035	414	11	8537	401
						1954	13	8801	4.9	427	11	9395	409	6	9371	405
						1955	11	8707	4.8	417	10	11217	473	8	9239	412
						1956	15	8309	5.0	413	15	9567	415	13	9239	402
						1957	7	8521	5.0	425	7	9390	430	7	9913	456
						1958	3	8430	4.9	416	3	10750	463	3	10617	436
						1959	2	10315	4.5	464	2	9525	380	2	10721	435
309795	43	118	7584	4.9	371	1952	5	7450	4.9	356	4	9225	412			
						1953	24	7360	5.0	367	23	8699	408	12	8440	401
						1954	22	7544	5.0	376	22	8406	388	18	8732	399
						1955	25	7985	4.9	391	25	8540	396	20	8337	380
						1956	17	7685	4.9	372	17	8538	400	15	8517	399
						1957	12	8641	4.7	402	12	9238	412	11	8450	397
						1958	9	9047	4.7	427	7	8450	406	7	8027	392
						1959	3	9667	4.7	456	3	8237	394	3	8408	405
						1960	1	12640	4.5	564	1	9690	450	1	8197	399
311574	1	2	4795	5.2	252	1953	1	5400	5.8	313	1	5430	301	1	6649	351
						1955	1	4190	4.6	191	1	5700	267	1	5308	264
311775	1	2	9020	5.3	478	1952	1	9980	5.2	522	1	9300	472			
						1953	1	8060	5.4	433	1	7500	357	1	11140	516
312210	5	10	7044	4.9	336	1947	2	8335	4.5	365						
						1948	5	7506	4.8	348						
						1949	1	5660	5.1	291						
						1950	2	7275	4.3	313						
313997	1	2	7825	5.3	409	1955	1	8150	5.0	408	1	8770	412	1	8240	396
						1956	1	7500	5.5	410	1	10960	448	1	8687	411
315423	2	2	7420	5.4	400	1952	1	7260	5.4	389						
						1953	1	7580	5.4	410						
316411	10	33	10191	4.4	445	1947	9	10653	4.3	459	2	13655	533			
						1948	6	10658	4.4	470	2	10245	442			
						1949	4	10608	4.5	480	2	11375	529			
						1950	4	9365	4.5	518	2	10285	489			
						1951	3	9233	4.4	408	2	9520	479			
						1952	2	10975	4.2	452	2	10180	488			
						1953	1	12370	4.0	501	1	10310	507	1	10933	531
						1954	1	9720	4.3	421	1	9940	454	1	10301	494
						1955	1	10380	4.4	462	1	10480	492	1	9211	450
						1956	2	10270	4.1	426	2	10570	490	2	10584	502
318118	7	17	6099	5.3	318	1947	7	6470	5.3	337						
						1948	5	6618	5.2	336						
						1949	2	6690	5.1	337						
						1950	1	7100	5.3	376						
						1951	1	5920	5.0	294						
						1952	1	4560	5.3	241						
319210	2	3	9700	4.8	464	1950	1	10580	4.9	523						
						1955	1	9210	4.3	392	1	7790	413	1	6747	367
						1957	1	8430	4.9	416	1	7970	433	1	8208	432
319372	2	2	4390	5.2	237	1958	2	4390	5.2	237	2	7015	305	2	6736	298
319654	2	6	11230	4.6	520	1954	1	9670	4.8	464	1	8640	416	1	7597	332
						1955	1	11100	4.7	525	1	8940	423	1	8240	377
						1956	1	10640	4.9	517	1	9230	443	1	8633	410

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY			CONTEMP.			YEARLY HERO AVERAGE		
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.		RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
GUERNSEY																				
						1958	1	8470	4.5	385		1	8280	394				1	8524	419
						1959	2	12490	4.5	566		1	10150	490						
321638	1	5	9538	5.0	476	1949	1	9070	5.6	507		1	10270	506						
						1950	1	9640	4.9	472		1	9410	443						
						1951	1	9380	4.9	458		1	7150	422						
						1952	1	9780	4.8	474		1	7770	398						
						1954	1	9820	4.8	469		1	6650	359						
321668	1	1	8270	4.8	401	1954	1	8270	4.8	401		1	8440	401				1	9069	434
322028	10	11	7088	4.8	344	1951	1	8570	4.7	404										
						1953	5	6040	4.8	291		2	9585	402				1	10181	425
						1954	3	7580	4.8	357		2	8880	422						
						1955	1	9320	5.6	524		1	13710	489						
						1956	1	7500	5.0	372		1	8150	365						
324380	1	2	8955	4.6	409	1954	1	9840	4.7	461										
						1956	1	8070	4.4	357										
326212	31	91	6892	5.0	342	1947	3	5323	5.0	262										
						1948	5	7036	5.2	363										
						1949	11	7160	5.0	357		2	7100	310						
						1950	14	7379	5.0	365		1	13650	632						
						1951	19	6824	5.0	335		7	8344	387						
						1952	10	7098	5.0	351		4	7715	369						
						1953	11	7195	4.8	344		10	7883	369				5	7249	329
						1954	8	6934	4.9	338		8	7870	366				4	8372	393
						1955	5	7096	4.8	340		5	7708	360				4	7270	344
						1956	3	8547	4.8	412		3	7477	347				2	8072	375
						1957	2	7130	4.9	349		2	7730	371				2	7456	350
327569	4	4	4923	5.2	256	1948	2	5760	5.4	309										
						1949	2	4085	5.0	204										
328945	1	1	8480	4.7	395	1954	1	8480	4.7	395		1	8020	361				1	8611	405
329555	12	45	11287	5.0	566	1952	4	11795	5.2	610		4	12620	585						
						1953	7	13400	4.7	624		5	12204	568				5	11183	534
						1954	10	11521	5.1	582		9	13174	593				9	11042	530
						1955	9	11653	5.2	606		9	12824	599				9	12132	584
						1956	7	9119	5.2	472		6	10667	543				6	11167	561
						1957	5	9412	5.1	482		5	12134	565				4	10707	547
						1958	2	10175	5.1	512										
						1959	1	6810	4.6	315		1	9100	451				1	9450	479
330118	3	13	7686	4.6	349	1947	2	7655	4.3	323										
						1948	2	6645	4.7	308										
						1949	2	8540	4.6	388										
						1950	2	8160	4.7	380										
						1951	2	7300	5.1	364										
						1952	1	8160	4.4	359		1	8000	395						
						1953	1	8590	4.0	344		1	7720	367						
						1954	1	7450	4.2	316		1	7560	335				1	7379	342
330198	1	1	7500	4.1	306	1949	1	7500	4.1	306										
331097	3	6	9863	4.9	479	1954	2	10705	4.6	493		2	7395	367						
						1955	2	9325	5.1	475		2	9360	484				1	8502	428
						1956	1	11620	5.2	603		1	9900	522						
						1957	1	7420	4.9	362		1	9640	460						
331984	1	1	9330	4.8	449	1952	1	9330	4.8	449										
333200	1	3	8260	5.5	456	1955	1	9400	5.7	540		1	9030	412				1	9603	425
						1956	1	7950	5.3	421		1	10220	465				1	9396	423
						1957	1	7430	5.5	408		1	11240	485				1	10911	494
334545	2	6	7780	5.3	411	1953	1	7870	5.6	444										
						1954	1	8020	5.0	399		1	8640	398						
						1955	1	7730	5.0	386		1	8760	415				1	7750	372
						1956	1	8020	5.0	401		1	7970	354				1	8240	387
						1957	1	7290	4.7	339		1	8860	423				1	8273	387
						1958	1	7390	5.0	367		1	7530	379				1	7739	373
334926	3	7	7121	4.9	351	1954	2	7135	5.1	365		2	7765	401				2	7521	399
						1955	1	8270	4.9	407		1	7620	386				1	7052	384
						1956	1	8170	4.5	370								1	7663	398
						1957	2	6835	4.8	326		2	8250	420				1	8197	441
						1958	1	8840	4.7	412		1	9420	471						
335122	1	1	5690	4.6	259	1949	1	5690	4.6	259										
335736	1	1	11290	4.5	504	1955	1	11290	4.5	504		1	10660	462						
336247	1	4	10185	5.2	523	1954	1	8670	5.2	447		1	7370	358						
						1955	1	10640	5.2	552		1	9040	403				1	7423	350
						1956	1	11000	5.3	579		1	10960	453				1	8905	410



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	305-DAY RECORDS NO.	CONTEMP. MILK LBS.	AV. FAT LBS.	YEARLY RECORDS NO.	HERO MILK LBS.	AVERAGE FAT LBS.	
GUERNSEY																	
338467	2	3	11350	4.4	504	1957	1	10430	4.9	513	1	8940	380		1	10464	455
						1953	1	13250	4.6	611	1	9220	462		1	9723	485
						1954	1	9440	4.3	403	1	9240	352		1	10955	393
						1955	1	9460	4.1	390	1	11610	444				
342282	7	18	8774	4.3	374	1948	1	9610	4.1	394							
						1949	2	11890	4.1	481							
						1950	5	8452	4.4	371	1	10870	467				
						1951	4	8183	4.4	354	1	10890	451				
						1952	4	7158	4.1	289	1	10200	433				
						1953	1	7580	4.3	325	1	8130	371				
						1954	1	7900	4.1	321	1	8260	369				
343131	1	1	8750	5.0	440	1955	1	8750	5.0	440	1	7120	343		1	9625	456
344279	5	6	8239	4.6	374	1950	1	4680	4.8	223							
						1951	1	6640	4.6	305							
						1952	2	10865	4.4	473	2	8060	380				
						1953	2	9695	4.6	443	2	8100	381		2	8382	389
346065	1	1	8510	4.3	363	1958	1	8510	4.3	363							
346295	1	1	6430	5.3	342	1955	1	6430	5.3	342	1	5910	292				
349213	3	4	7028	5.0	352	1953	1	6830	5.0	343	1	6070	359		1	7903	413
						1954	1	6960	4.9	341	1	8840	453		1	7477	378
						1957	1	5570	4.9	273	1	9090	451				
						1958	1	8620	5.1	442	1	8460	424		1	7412	358
349535	1	2	6940	4.6	319	1950	1	6880	4.5	311							
						1951	1	7000	4.7	327							
349633	1	2	6815	4.9	331	1958	1	7840	4.7	372	1	8520	430		1	7412	358
						1959	1	5790	5.0	290	1	7240	341		1	8480	415
349935	1	1	8880	4.6	408	1953	1	8880	4.6	408							
350645	27	56	7388	4.7	349	1953	9	8129	4.7	380	9	8318	388		6	7768	345
						1954	13	7238	4.6	335	13	7775	364		8	7888	360
						1955	13	7485	4.6	345	12	9113	405		9	8515	377
						1956	13	7206	4.8	349	12	9405	434		11	8669	396
						1957	7	7086	4.7	330	6	9105	432		6	8878	409
						1958	1	6300	4.5	283	1	8270	393		1	7794	375
351118	1	2	8860	5.1	452	1955	1	9700	5.0	487	1	9360	477		1	8524	446
						1956	1	8020	5.2	417	1	9790	506		1	9450	482
351723	1	1	6120	5.0	308	1949	1	6120	5.0	308							
351862	22	48	7523	4.7	350	1949	2	8265	4.7	382							
						1950	7	7474	4.5	333							
						1951	11	8085	4.8	396	4	8125	434				
						1952	11	6824	4.7	320	4	8438	419				
						1953	4	7973	4.7	372	3	9240	480		3	9410	460
						1954	3	8667	4.7	403	3	7823	376		3	7979	379
						1955	6	8230	4.6	380	5	8302	397		3	8367	396
						1956	2	8300	4.6	382	2	8570	390		1	7957	375
						1957	2	6455	4.6	298	2	9340	417		1	8382	401
352695	1	1	10760	4.8	517	1959	1	10760	4.8	517	1	9030	441				
354073	1	2	11540	4.1	475	1957	1	12200	4.0	492	1	8080	358		1	9200	405
						1958	1	10880	4.2	457							
355910	3	5	6652	5.5	365	1957	1	8300	5.4	446	1	8600	386		1	9167	450
						1958	3	6650	5.9	396	2	7470	378		2	8655	419
						1960	1	5830	4.8	278							
357406	5	7	6977	4.5	315	1951	1	10020	4.9	496	1	9950	439				
						1952	4	6828	4.6	316	1	8930	472				
						1953	2	6870	4.8	334	2	9250	427		1	8611	438
357515	1	3	9360	4.0	374	1953	1	9160	4.3	397	1	11590	503				
						1954	1	9560	3.9	376	1	10880	454				
						1955	1	9360	3.7	349	1	10800	484		1	9494	441
359347	5	11	6514	5.6	363	1948	3	5977	5.3	313							
						1949	4	7143	5.8	409							
						1950	2	7355	5.3	384							
						1951	1	5900	5.3	311							
						1953	1	4660	5.0	234	1	7220	319				
360026	2	3	7913	5.4	420	1952	1	7470	5.1	379	1	10020	424				
						1953	1	7870	5.4	421	1	8960	426				
						1954	1	8840	5.7	500	1	8460	415		1	9156	444
360912	8	15	7260	5.0	363	1954	4	5840	4.9	283	4	7130	331		3	7005	331
						1955	4	7998	5.2	416	4	7855	376		4	7502	357
						1956	3	8010	5.0	404	3	8117	384		3	8266	394
						1957	2	9060	4.8	434	2	7590	357		2	8104	401
						1958	1	7610	4.6	347	1	8620	418		1	8557	421
						1959	1	8440	6.2	521	1	8160	396		1	7717	367
361862	1	1	5310	4.1	219	1953	1	5310	4.1	219	1	8790	363				
361920	16	53	7602	4.8	363	1952	12	7958	4.9	384	8	7905	416				
						1953	13	7565	4.9	363	11	7403	363		7	7820	365
						1954	12	6773	5.0	336	10	7986	391		8	7656	366

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
							GUERNSEY										
						1955	8	8070	4.7	379	7	8870	405		6	8148	383
						1956	5	7968	4.6	364	5	8226	367		4	8246	388
						1957	2	9260	4.0	373	2	9400	399		1	8077	389
						1958	1	8740	3.7	326	1	12960	503		1	9243	352
362642	1	2	6570	5.4	342	1952	1	8870	5.0	439	1	6450	333				
						1953	1	4270	5.7	244	1	8650	445		1	8753	433
362809	1	1	10210	4.4	454	1952	1	10210	4.4	454	1	10640	483				
362814	12	21	7880	5.1	399	1955	7	7433	5.3	390	6	9165	414		4	7726	375
						1956	6	6992	5.3	368	6	9305	425		6	8862	404
						1957	5	8512	4.9	416	5	9746	424		5	9250	417
						1958	3	10417	4.7	488	2	10845	471		2	10252	455
363323	1	3	8347	4.3	358	1955	1	7590	4.3	325	1	10410	482				
						1956	1	8850	4.3	360	1	10020	476		1	9865	462
						1957	1	8600	4.3	368	1	10260	506		1	9003	431
363763	1	2	6770	5.3	362	1954	1	8040	5.5	445	1	8030	398		1	8796	461
						1955	1	5500	5.1	279	1	9210	474		1	8502	428
364307	1	2	8290	4.8	392	1955	1	9190	4.7	428	1	8420	392		1	8458	392
						1956	1	7390	4.8	355	1	7910	407		1	8666	395
364803	5	12	9859	4.6	449	1953	4	9645	4.5	430	4	7750	459		4	8824	433
						1954	4	10475	4.7	484	1	8550	417		1	10301	494
						1955	1	9310	4.7	437	1	9190	333		1	9309	446
						1956	2	8735	4.6	399	1	13570	555		1	11020	552
						1957	1	7060	4.6	322							
365001	1	3	8543	4.9	411	1955	1	9510	4.6	434					1	7423	342
						1956	1	6650	5.3	350					1	7499	338
						1957	1	9470	4.8	450	1	7600	387		1	8088	390
											1	8410	364				
365713	1	4	9603	5.2	504	1954	1	10230	5.2	534	1	10050	476				
						1956	1	10540	5.3	554	1	9330	456				
						1957	1	10790	5.4	582	1	9770	502				
						1959	1	6850	5.0	344	1	9030	436		1	9581	458
366082	1	4	8925	4.4	395	1949	1	10480	4.7	491							
						1950	1	10430	4.3	449							
						1953	1	8210	4.5	366							
						1955	1	6580	4.1	272							
369069	17	38	9872	4.6	448	1954	5	9806	4.6	454	4	9935	457		1	7903	389
						1955	7	11380	4.5	520	7	11231	563		6	9134	458
						1956	10	10385	4.6	475	8	9071	427		10	9544	445
						1957	9	10501	4.6	479	8	8880	431		8	8957	423
						1958	5	9612	4.7	454	2	9965	509		2	10830	558
						1959	2	11290	4.9	554	2	10670	505		2	11331	571
369733	2	3	8853	4.5	380	1957	1	6330	4.9	307	1	10560	448		1	9603	446
						1958	1	12390	3.8	468	1	8830	420		1	10192	435
						1959	1	10360	4.2	436	1	11340	446		1	12818	507
371682	83	166	7473	4.8	356	1951	1	7010	4.8	334							
						1952	3	7297	4.6	337							
						1953	2	6995	4.7	325							
						1954	22	7372	4.8	348	20	8331	390		11	7625	355
						1955	42	7708	4.8	367	37	8079	384		31	7820	373
						1956	31	7371	4.9	360	29	8293	393		25	8384	401
						1957	30	7908	4.8	376	29	9989	424		28	8703	414
						1958	23	8597	4.7	403	18	9942	448		18	9090	424
						1959	11	8224	4.5	365	10	9478	437		9	8806	402
						1960	1	6780	4.5	307	1	7190	320		1	7052	311
371803	1	1	8980	5.4	487	1950	1	8980	5.4	487							
372112	2	2	6355	5.5	346	1954	2	6355	5.5	346	2	8390	410				
372369	32	54	7689	4.7	359	1953	4	7983	4.8	382	3	7527	372		1	6725	317
						1954	7	6904	4.9	338	7	7524	360		4	7633	355
						1955	12	7317	4.6	334	11	7883	366		9	7794	355
						1956	14	8121	4.6	373	14	8537	399		10	8926	412
						1957	12	7665	4.5	346	12	8469	382		12	8700	400
						1958	5	9264	4.6	424	5	8952	407		5	7892	383
372372	4	13	9317	4.7	434	1953	4	9443	4.7	438	3	9330	454		1	10933	531
						1954	3	9197	4.6	427	3	8430	401		1	10301	494
						1955	4	9846	4.7	462	4	8558	402		2	8579	409
						1956	1	6170	5.0	307	1	11460	483		1	10584	502
						1957	1	10160	4.6	463	1	8150	388		1	7467	354
373738	52	100	7889	4.8	377	1953	6	8622	4.4	381	5	8260	390		3	9367	434
						1954	19	7891	4.8	381	19	8260	364		12	8292	365
						1955	25	7877	4.9	379	25	8668	391		22	8323	381
						1956	15	7883	4.7	361	15	8591	395		14	8121	375
						1957	20	7998	4.8	386	19	9800	437		15	9036	418
						1958	11	7482	4.8	366	9	7901	372		7	9050	429
						1959	3	6810	4.7	320	3	8160	381		3	9011	419
						1960	1	7780	4.5	353	1	14010	703		1	6780	338
375262	4	7	7684	5.3	397	1954	3	7527	5.4	396	3	8617	415		3	7855	381

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	AV. LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
GULRNSEY																	
375956	2	4	8459	5.0	418	1956	1	10030	4.2	416	1	8200	385		1	9047	439
						1957	2	7330	5.2	378	2	8535	425		1	9167	450
						1958	1	7270	5.2	378	1	7040	354		1	8655	419
						1955	1	8130	4.9	395	1	5780	288				
						1956	1	8830	4.9	435	1	9320	447		1	8633	410
						1958	1	8440	5.0	425	1	8490	412		1	8524	419
						1959	1	9090	5.1	460	1	8130	396		1	9211	441
						1948	1	8020	4.8	389							
						1949	3	9700	5.1	494							
						1950	3	8987	4.9	437							
376743	17	35	8481	5.1	432	1952	2	9585	4.9	470							
						1953	3	9887	5.0	489							
						1954	6	8163	5.3	428							
						1955	10	7539	5.2	386							
						1956	5	8474	5.2	436	1	8640	432		1	10235	488
						1957	1	12880	5.1	657	1	9120	435		1	8949	438
						1959	1	9890	4.6	455	1	9470	451		1	9897	476
						1952	2	9330	4.3	401	2	10435	501				
						1953	5	8054	4.6	371	4	7840	384		3	7539	374
						1954	1	10840	4.4	480	1	8830	422		1	9941	472
376904	7	14	8042	4.7	378	1955	2	9060	4.4	397	2	8825	437		2	9549	466
						1956	3	9395	4.9	455	3	9227	464		3	9083	457
						1957	1	9070	4.6	416	1	8450	457		1	7924	393
						1952	1	7070	4.6	340							
						1953	6	9565	4.5	431	3	8857	423		1	9832	480
377882	58	114	8298	4.7	385	1954	16	9581	4.6	435	15	8913	405		8	8683	388
						1955	36	8183	4.7	384	35	8372	388		30	7949	370
						1956	26	8747	4.7	408	24	9185	420		22	8650	403
						1957	18	8107	4.6	375	16	8709	392		13	9054	424
						1958	10	7355	4.5	329	5	8990	415		4	7930	388
						1959	1	8990	4.0	358	1	6490	303		1	6780	316
						1949	1	5230	5.1	266							
						1950	1	5460	6.4	351							
						1953	3	7280	5.6	409	3	9400	408		3	10032	431
382936	5	7	7567	5.3	398	1954	1	6930	5.5	381	1	7640	391				
						1955	2	8250	5.3	424	2	8820	408		2	8240	396
						1957	1	5520	4.9	269	1	7960	358		1	7597	328
						1954	7	6860	4.6	316	7	7417	344		5	7623	358
385125	65	88	7878	4.6	361	1955	22	7580	4.5	338	22	8214	379		12	8152	373
						1956	25	8009	4.5	355	25	9100	421		21	8713	401
						1957	19	8627	4.7	406	19	8833	405		15	8660	406
						1958	14	9176	4.6	421	12	9766	458		12	9258	430
						1959	1	10390	4.3	448	1	7500	371		1	8905	435
385127	31	48	7886	4.9	387	1954	2	8010	5.0	400							
						1955	7	7966	5.0	392	5	8964	398		3	7550	364
						1956	17	7628	4.9	370	16	8948	424		10	8570	400
						1957	14	8536	4.9	415	14	8694	409		14	8621	404
						1958	6	9107	5.0	453	4	8538	396		4	8960	416
						1959	1	13320	4.8	636	1	11380	531		1	10475	496
						1960	1	10950	4.8	523	1	6900	326		1	9276	426
385173	9	20	7193	4.9	349	1950	1	11380	4.5	507	1	9510	469				
						1951	1	10450	4.7	487	1	9090	447				
						1952	2	7390	5.0	374	2	9800	460				
						1953	3	9617	4.7	457	2	10405	492		2	9663	448
						1954	8	6721	4.8	322	7	10270	423		3	9011	409
						1956	2	7085	5.2	370	2	8165	347		1	8905	347
						1957	1	7880	5.1	398	1	7410	343		1	7619	359
						1958	1	8510	5.1	432	1	8340	405		1	8371	389
						1959	1	9970	4.7	466	1	10740	460		1	8829	404
						386820	4	4	7748	4.7	360	1955	1	6080	5.3	322	1
1956	2	8225	4.5	366	2							7190	381		2	9145	429
1957	1	8460	4.5	384	1							9290	446				
386924	10	12	7184	4.8	344	1956	5	7446	4.9	360	4	8273	405		4	8646	386
						1957	5	7028	4.6	327	5	9150	408		4	8592	388
						1958	1	5380	5.2	282							
						1959	1	6450	4.8	309	1	7540	338		1	8993	400
387615	1	5	6814	4.8	325	1953	1	8860	4.5	402	1	10680	492		1	8502	392
						1955	1	7340	5.2	383	1	6720	368		1	9036	420
						1956	1	6270	5.0	314	1	5210	303				
						1957	1	6230	4.4	273	1	5470	296		1	6300	316
						1958	1	5370	4.7	254							
387716	3	7	7371	5.2	382	1952	1	6470	5.4	352	1	6240	355				
						1953	2	6175	5.5	339	1	7210	364		1	6649	351
						1954	1	5260	4.2	219	1	6630	316				
						1955	1	8790	4.9	435	1	9810	473		1	9548	447
						1956	1	10680	4.9	521	1	10070	452		1	9385	432
						1957	1	9870	4.8	474	1	10630	505		1	10028	474
389260	5	8	8219	5.0	406	1953	1	7120	4.8	343	1	7750	370		1	6104	319
						1954	3	8587	5.1	433	3	10183	440				
						1955	3	9140	4.8	440	3	11180	528		1	13058	520

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
						1957	1	7710	4.8	368	1	12440	530		1	13669	533
389449	1	5	6596	4.5	300	1953	1	8440	4.5	381	1	8560	409	1	8012	373	
						1954	1	6310	4.6	293	1	8960	451	1	7510	362	
						1955	1	6550	4.5	296	1	7700	391	1	7565	370	
						1956	1	6650	4.7	310	1	7570	418	1	7554	405	
						1957	1	5030	4.5	218	1	8160	413	1	10704	395	
389518	12	26	8442	4.6	388	1955	10	8399	4.7	389	9	8902	407	8	8596	401	
						1956	6	9088	4.6	414	6	9567	458	6	9004	419	
						1957	5	8024	4.8	385	5	10172	451	5	9114	441	
						1958	3	8713	4.6	400	2	10960	444	2	8415	407	
						1959	1	8790	5.0	442	1	9050	420	1	8993	425	
						1960	1	9840	4.6	453	1	6820	325	1	9276	426	
389666	1	1	6650	4.5	302	1958	1	6650	4.5	302	1	8620	436	1	7412	358	
390931	5	16	8084	4.7	371	1952	1	8050	4.9	397	1	9090	460				
						1953	4	8405	4.6	381	4	9198	442	1	8567	420	
						1954	5	7884	4.8	374	5	8248	388	4	8723	412	
						1955	3	8453	4.5	382	3	7467	370	3	7924	384	
						1956	1	7970	4.7	374	1	8260	407	1	8360	408	
						1957	2	7960	4.2	331	2	9920	459	2	8104	401	
392743	20	32	7484	4.9	363	1953	1	5690	5.2	295	1	8450	375	1	8622	403	
						1954	4	8418	4.6	382	2	9150	383	1	7837	354	
						1955	8	8060	5.1	404	7	9079	431	8	8540	395	
						1956	10	7616	4.6	354	9	9257	415	10	8977	404	
						1957	5	6354	5.6	343	5	8862	390	5	8862	402	
						1958	4	7505	5.1	386	3	7863	377	3	8117	388	
393411	9	19	7991	5.1	399	1953	3	7730	4.6	357	3	8483	346	2	9657	432	
						1954	5	7736	5.2	403	5	7608	355	1	8382	396	
						1955	4	6890	5.2	357	4	8123	389	1	7750	372	
						1956	1	5240	5.4	285	1	6210	270				
						1957	1	8220	4.4	362	1	6060	267				
						1958	2	7606	5.1	390	1	7300	322				
						1959	2	9275	4.2	385	2	8085	360	2	8241	356	
						1960	1	7170	4.6	328	1	6310	320	1	6453	327	
397073	1	1	7790	4.7	368	1957	1	7790	4.7	368	1	10770	513	1	10028	474	
400003	4	5	6485	5.4	345	1957	1	8130	5.0	405	1	11880	450	1	9603	446	
						1958	3	5910	5.5	317	3	7493	358	3	7576	355	
						1959	1	7500	5.8	433	1	11520	446	1	12818	507	
401055	1	1	6010	4.7	282	1955	1	6010	4.7	282	1	7640	395				
401883	16	37	8434	4.6	387	1953	4	8005	4.7	376	3	8413	418	3	7957	398	
						1954	3	9753	4.7	465	2	8940	430	2	8257	397	
						1955	9	9368	4.6	436	9	9880	418	7	8346	393	
						1956	8	9035	4.5	403	7	9063	408	8	8625	391	
						1957	7	7924	4.6	365	7	8746	392	7	8365	387	
						1958	4	9065	4.5	409	3	7897	360	3	7946	363	
						1959	2	9790	4.3	417	2	8625	382	2	8824	399	
403571	7	13	7194	4.9	355	1950	1	9430	5.9	557							
						1951	1	7910	5.9	464							
						1953	1	6670	5.1	359							
						1954	1	7450	5.4	403							
						1955	2	9375	5.0	464	1	10390	451	1	8960	378	
						1956	3	8540	4.7	397	2	9995	400	2	9036	401	
						1957	2	5710	4.7	273	2	6675	362	2	6322	394	
						1958	2	6545	4.9	323	1	14660	556	1	9003	354	
405045	12	26	7661	4.7	358	1953	7	7031	5.0	352	7	8111	366	3	7165	326	
						1954	8	7545	4.7	355	8	8006	366	3	7267	349	
						1955	5	7750	4.6	354	5	9256	424	5	7920	370	
						1956	2	8955	4.7	422	2	9685	431	2	8982	411	
						1957	2	9450	4.5	426	2	8950	407	2	9772	441	
						1958	2	8840	4.6	403				1	8905	389	
407335	5	9	6952	5.2	357	1951	1	6370	5.7	362							
						1952	2	6720	5.9	392							
						1953	2	5695	5.0	271							
						1957	2	7020	5.3	369	1	9000	474	1	7924	393	
						1958	1	8730	5.1	447							
						1959	1	9590	4.6	463							
407865	1	1	6230	4.2	263	1957	1	6230	4.2	263	1	8870	454				
409032	3	8	7998	5.0	397	1953	1	9720	4.9	478	1	9930	456	1	10933	531	
						1954	3	8017	5.0	398	3	8887	444	1	10301	494	
						1955	2	6810	5.1	347	2	7950	401	1	7031	367	
						1956	2	7885	5.0	392	2	10670	493	1	8546	441	
410998	5	11	8376	5.0	425	1954	1	7290	5.1	375	1	8520	403	1	8044	382	
						1955	1	8540	5.1	438	1	10200	511	1	8785	415	
						1956	1	7750	5.2	403	1	8200	420	1	9047	439	
						1957	4	8803	5.1	449	4	7845	383	1	9167	450	
						1958	3	9520	5.0	481	3	6900	349	3	7826	378	



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR													
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.			
GUERNSEY																			
						1959	1	5850	4.7	273	1	5790	290	1	8480	415			
411879	60	96	8133	5.0	404	1955	14	8609	5.0	430	14	8240	399	13	8421	392			
						1956	25	7966	5.1	397	23	8562	405	22	8458	401			
						1957	31	7899	5.1	398	30	8601	401	27	8745	411			
						1958	25	8543	4.9	420	13	9667	420	13	8534	398			
						1959	1	10480	4.4	456	1	10910	499	1	12709	542			
414633	1	1	7820	5.4	421	1953	1	7820	5.4	421	1	8430	394						
415071	21	49	7562	4.9	368	1952	2	6050	4.6	278	2	5595	280						
						1953	18	7687	4.8	371	15	8204	374	9	8259	378			
						1954	13	8175	4.9	401	12	8500	374	8	8292	362			
						1955	6	7950	4.7	364	6	7733	349	5	8424	366			
						1956	6	7207	4.7	339	5	8618	386	5	8478	388			
						1957	2	7070	4.0	284	2	7560	369	2	7374	353			
						1958	1	8460	4.9	411	1	11100	511	1	10584	517			
						1959	1	9640	5.1	493	1	10120	477	1	10660	513			
415186	1	1	7900	4.6	362	1955	1	7900	4.6	362	1	7090	367						
417464	2	3	9248	4.8	438	1955	3	9100	5.0	449	3	9327	435	2	8066	403			
418003	4	10	7690	4.9	381	1951	1	6390	5.3	336	1	10640	502						
						1952	1	6700	5.9	396	1	10090	448						
						1953	1	4290	5.3	228	1	8660	416	1	6300	303			
						1954	1	7870	5.3	419	1	7660	368						
						1955	2	8695	4.8	416	2	8500	390	1	6453	313			
						1956	2	6870	4.9	341	2	11420	464	2	8415	375			
						1957	1	9340	5.9	553	1	7790	361	1	7924	393			
						1958	1	7740	5.6	434									
419514	1	2	8005	4.7	372	1959	1	9070	4.5	411	1	10330	496						
						1960	1	6940	4.8	352	1	6180	314	1	6595	330			
421254	1	1	7160	5.3	378	1957	1	7160	5.3	378	1	8230	405						
422893	2	2	7705	5.5	426	1958	2	7705	5.5	426									
423418	2	3	10170	5.0	498	1958	1	13860	4.6	638	1	10080	485	1	10780	510			
						1959	2	9630	5.0	471	2	9980	479	2	10715	505			
426820	1	5	7032	4.8	340	1954	1	6430	4.7	301	1	10920	443	1	9745	420			
						1955	1	7630	4.8	367	1	14300	588	1	9679	401			
						1956	1	6600	5.0	331	1	7950	466	1	10366	437			
						1957	1	6710	4.7	318									
						1958	1	7790	4.9	383	1	10920	513	1	10933	474			
427632	30	39	7596	4.9	371	1956	12	7381	5.2	381	12	8748	407	10	8267	376			
						1957	17	7872	4.8	378	17	9103	404	13	8929	419			
						1958	10	7922	4.7	375	5	9936	442	5	9073	413			
428877	27	50	7264	5.1	371	1953	3	8120	5.2	417	3	8417	386	2	8993	362			
						1954	9	8139	5.0	410	9	9609	410	4	10775	432			
						1955	19	7352	5.0	367	19	8712	392	14	7850	366			
						1956	9	8108	5.0	402	9	8939	413	8	8763	406			
						1957	5	6320	5.6	347	5	8602	398	5	8910	419			
						1958	3	7890	5.1	400	3	9230	406	3	8866	399			
						1959	2	5730	5.3	299	2	10585	441	2	9963	438			
430950	4	6	8327	5.0	413	1953	1	8170	4.9	403	1	8540	424	1	8121	400			
						1954	1	6670	5.0	335	1	9110	462						
						1955	1	7230	4.9	354	1	11260	588	1	9309	446			
						1957	2	8550	5.0	422	2	8410	425						
						1958	1	8850	5.0	443	1	9120	470	1	7412	358			
431889	1	2	9080	4.6	414	1956	2	9080	4.6	414	2	9105	404	2	8949	399			
433384	6	15	8457	4.8	405	1954	1	8740	5.3	466	1	8130	416						
						1955	1	8760	5.3	461	1	7010	358						
						1956	1	10560	4.9	518	1	10530	461						
						1957	3	9470	4.6	441	1	9760	475	1	10737	460			
						1958	6	8858	4.6	414	4	8673	379	3	9400	421			
						1959	2	7680	5.0	385	1	9630	430	2	5385	477			
						1960	1	11830	5.1	602	1	7530	354	1	9243	446			
437283	3	4	7513	4.5	337	1956	1	8050	4.6	369	1	9710	403						
						1957	1	6830	5.1	346									
						1958	1	8030	4.5	360	1	8290	384	1	8829	416			
						1959	1	7070	4.2	294	1	6870	319	1	9407	451			
437646	4	5	8428	4.5	376	1956	2	9130	4.2	387	2	9620	430						
						1957	3	8060	4.5	361	3	10563	474	3	9181	423			
439085	1	1	7500	5.3	394	1955	1	7500	5.3	394	1	10720	498	1	9211	450			
444047	6	7	6805	5.0	335	1953	1	7060	4.8	337									
						1954	2	5760	5.1	295									
						1955	1	5390	5.4	290									
						1956	3	7880	4.8	378									
444052	3	6	7932	5.1	402	1954	2	8620	5.0	432	2	8395	410	1	8796	461			
						1955	1	9400	5.1	475	1	9660	518						
						1956	1	10070	5.2	528	1	9820	494						
						1957	1	9440	5.1	480	1	8920	463						
						1958	1	6460	5.3	341									



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUP L0 BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
444418	1	1	9200	4.3	397	1955	1	9200	4.3	397				1	8349	412
447107	14	17	7069	4.8	335	1956	3	8640	4.6	400	3	13097	521	3	10197	415
						1957	9	7241	4.9	346	8	8690	386	8	8257	372
						1958	5	5836	4.7	274	5	7750	361	5	8411	392
448426	2	2	8270	4.9	403	1957	1	7500	4.8	357						
						1958	1	9040	5.0	449						
453966	1	1	6180	5.8	357	1957	1	6180	5.8	357						
454224	1	1	10760	5.3	571	1958	1	10760	5.3	571	1	10400	441	1	9501	435
454483	1	1	7280	4.5	325	1955	1	7280	4.5	325	1	6480	310			
457544	1	1	6060	5.0	305	1957	1	6060	5.0	305	1	12330	488	1	10420	435
458101	1	1	6180	4.7	292	1957	1	6180	4.7	292	1	10580	450	1	9603	446
458823	14	19	8774	4.8	421	1954	7	9520	4.9	467						
						1955	5	8992	4.9	433						
						1956	4	8610	4.7	398	2	8945	429	1	8437	391
						1957	2	5706	5.1	291	2	7815	375	2	7456	350
						1958	1	8670	5.4	464	1	11940	474	1	8175	407
462487	6	7	7376	4.8	352	1954	1	8240	4.6	382	1	8030	362	1	8611	405
						1955	4	7320	4.7	358	4	8018	366	4	8750	378
						1956	1	5090	5.1	257	1	7440	412	1	8949	399
						1959	1	8510	5.3	438	1	9250	441			
467131	6	9	7689	5.0	380	1956	1	6530	4.6	292	1	9150	412	1	8949	399
						1957	4	8635	5.1	452	4	7718	369	4	7663	374
						1958	1	9700	4.8	462	1	8940	435	1	9429	463
						1959	5	8877	4.6	419	5	9903	445	3	9766	456
468506	1	2	7625	5.3	402	1954	1	8270	5.2	428	1	8870	426	1	8796	461
						1955	1	6980	5.4	376	1	9280	479	1	8502	428
470189	3	3	7220	4.4	320	1957	3	7220	4.4	320	5	7597	460	3	8273	405
470947	1	5	11860	5.0	590	1959	5	11860	5.0	590	2	9625	458	3	8353	572
472739	1	1	6800	4.3	295	1957	1	6800	4.3	295	1	7380	355	1	9167	450
483682	2	3	7890	5.0	395	1956	1	6160	5.0	310	1	7510	377	1	9047	439
						1957	2	8425	5.1	428	2	8515	403	2	9167	450
491144	8	14	6660	4.4	293	1956	2	8265	4.6	363						
						1957	4	6533	4.4	285						
						1958	6	6217	4.6	285						
						1959	2	8635	4.2	305						
494700	1	2	7365	5.6	408	1958	1	7910	5.5	434						
						1959	1	6820	5.6	382						
498699	1	1	9090	5.2	477	1956	1	9090	5.2	477						
499670	1	1	9550	4.5	433	1957	1	9550	4.5	433						
503928	1	1	4110	5.3	217	1958	1	4110	5.3	217				1	7412	358
512142	1	1	6920	4.6	317	1958	1	6920	4.6	317						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
620987	1	2	15770	3.2	511	1947	2	15770	3.2	511												
702939	20	51	13831	3.5	480	1947	19	13545	3.4	467		1	15880	587								
						1948	13	14205	3.5	492	1	14400	584									
						1949	7	14153	3.6	505	1	14150	473									
						1950	5	15522	3.6	557												
						1951	3	12973	3.8	497												
						1952	3	15297	3.4	457	1	14340	500									
						1954	1	12070	3.7	444	1	12750	487									
716526	1	4	11410	3.4	386	1947	1	11200	3.6	404												
						1948	1	9710	3.5	336												
						1949	1	13180	2.9	377												
						1950	1	11550	3.7	428												
725852	1	1	10570	3.9	416	1952	1	10570	3.9	416												
730541	1	1	14000	3.5	489	1947	1	14000	3.5	489												
739007	1	2	10175	3.4	338	1950	1	11970	3.3	394	1	12850	424									
						1951	1	8380	3.4	282	1	11220	389									
739097	6	17	12194	3.9	460	1950	3	13567	3.5	476												
						1951	2	11740	3.7	431	1	11740	472									
						1952	2	16035	3.6	583	1	12880	499									
						1953	3	12190	4.1	491	3	12333	462	3	11085	456						
						1954	4	9935	4.1	399	4	11798	440	3	13233	492						
						1955	2	12075	4.0	459	2	12500	466	2	12459	482						
						1956	1	9080	4.1	372	1	10510	426	1	9396	397						
742590	1	1	11850	3.7	436	1950	1	11850	3.7	436												
743211	1	1	6840	3.8	262	1950	1	6840	3.8	262												
743685	39	88	13667	3.5	470	1947	35	14285	3.4	485												
						1948	20	12442	3.5	434	1	16650	598									
						1949	17	13186	3.5	465	3	13510	514									
						1950	7	12064	3.5	425	1	14040	475									
						1951	4	12013	3.8	447												
						1952	3	15115	3.7	474	1	12090	430									
						1953	1	16880	3.6	600	1	13540	490									
						1954	1	15570	3.6	565	1	12150	466									
743690	2	7	8963	3.7	326	1950	2	8655	3.8	326												
						1951	1	6980	3.6	254												
						1952	2	8565	3.8	324												
						1953	1	12830	3.4	439												
						1955	1	10740	3.4	362												
745234	1	5	12650	3.5	441	1949	1	13080	3.0	395												
						1950	1	12550	4.2	528												
						1952	1	10780	3.6	413	1	6710	246									
						1953	1	14570	3.2	471	1	11630	388									
						1954	1	12270	3.2	399	1	10370	375									
748230	2	2	10170	3.9	396	1951	2	10170	3.9	396												
748994	1	4	13556	3.0	413	1949	1	13390	3.3	445	1	10140	469									
						1951	1	13020	3.1	398	1	11740	406									
						1952	1	15850	2.9	467	1	10250	353									
						1953	1	11970	2.6	341	1	11760	400									
750903	3	12	10699	3.7	400	1947	1	13070	3.8	501												
						1948	2	11195	3.8	423												
						1949	2	11340	3.8	435												
						1950	1	14050	3.7	521	1	14440	533									
						1951	3	10100	3.7	381	2	13305	462									
						1952	1	12920	4.0	522	1	13690	484									
						1954	1	12430	3.6	449	1	12110	415									
						1955	1	12740	3.8	479				1	10737	392						
754118	48	134	11562	3.6	414	1949	5	11044	3.6	403	2	12400	438									
						1950	21	11063	3.6	399	8	11946	450									
						1951	20	11177	3.7	411	10	10662	391									
						1952	22	12313	3.6	438	16	11965	436									
						1953	18	11973	3.6	424	15	11846	426	10	11678	417						
						1954	21	12113	3.6	427	21	12166	450	10	11540	413						
						1955	11	12717	3.3	416	11	12413	441	7	12510	442						
						1956	8	13220	3.4	444	8	12724	439	8	12284	429						
						1957	3	14783	3.5	507	3	15083	525	3	14210	498						
						1958	3	12367	3.4	424	3	13007	470	3	13134	473						
						1959	2	15595	3.3	514	2	13095	488	2	13413	485						
						754589	1	4	8375	4.2	355	1953	1	9560	4.3	414	1	11710	455	1	10268	397
												1954	1	9810	4.4	436	1	10650	394	1	11772	461
												1955	1	8950	4.1	363	1	9320	351	1	11816	455
												1956	1	5180	4.0	206	1	11810	424	1	11303	423
757596	10	21	11938	3.7	444	1951	1	13540	3.9	525	1	15200	570									
						1952	4	12783	3.7	479	4	12068	471									
						1953	7	12769	3.8	477	7	12946	474									
						1954	5	11272	3.8	454	5	11616	414	7	12276	461						
														3	12030	460						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	TEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
HOLSTEIN																						
757597	5	14	12219	3.8	462	1955	2	10385	3.7	380	2	11990	437	2	12737	470						
						1956	2	11490	3.7	421	2	12250	428	2	12290	448						
						1951	2	12690	4.0	497	1	11930	471									
						1952	3	11123	4.3	471	3	11810	464									
						1953	2	11845	3.9	454	2	12925	471	2	11135	423						
						1954	1	11170	3.7	415	1	13510	459									
						1955	1	11250	3.4	379	1	10840	409									
						1956	2	9080	3.7	332	2	11245	402									
						1957	2	10470	3.7	385	2	12380	451	2	11140	408						
						1959	1	14070	3.6	503	1	13900	456	1	13789	488						
761870	8	17	12256	3.6	440	1947	5	13670	3.4	469												
						1948	6	11853	3.5	419												
						1949	4	12966	3.6	454												
						1950	2	12850	3.8	483												
761974	79	205	12461	3.6	451	1951	11	12227	3.6	436	8	10658	385									
						1952	21	12298	3.7	448	17	12201	442									
						1953	36	12383	3.6	449	32	11628	421	26	11423	410						
						1954	58	11941	3.6	431	37	12360	441	24	12285	456						
						1955	38	12504	3.6	448	36	12271	440	27	11847	427						
						1956	28	12792	3.5	453	26	12588	448	23	12191	440						
						1957	16	12851	3.5	449	16	12289	450	16	12907	472						
						1958	11	13219	3.5	468	7	12361	440	7	12611	463						
						1959	4	14198	3.6	506	4	12555	434	4	12895	481						
						1960	2	12720	3.5	458	2	12620	477	2	11478	434						
						766944	26	60	11257	3.6	399	1951	2	11145	3.8	414	2	11205	396			
												1952	13	11880	3.6	432	11	12684	445			
												1953	17	11278	3.4	389	15	11603	418	12	11382	401
1954	11	10505	3.7	388	11							11321	395	3	12829	445						
1955	9	12421	3.6	453	9							11917	433	8	11039	395						
1956	5	12772	3.9	495	5							12154	451	5	12334	449						
1957	1	12080	3.2	384	1							15960	637	1	15560	499						
1958	2	15560	3.2	488	2							14790	497	2	14116	468						
771491	1	5	12064	4.0	480	1951	1	11040	4.2	459	1	11500	399									
						1952	1	12430	3.9	485	1	11490	412									
						1953	1	10590	4.0	421	1	11210	385	1	10628	372						
						1954	1	11840	4.1	463	1	11120	373	1	12622	429						
						1955	1	14420	3.9	556	1	12780	412	1	12273	478						
774750	6	14	11182	3.7	408	1949	2	11655	3.9	450												
						1950	2	13525	3.6	482	1	13880	477									
						1951	1	12360	3.5	433	1	14350	502									
						1952	1	12690	3.5	447												
						1953	1	11550	3.5	401	1	13920	504	1	12917	447						
						1954	2	11490	3.5	392	2	13970	499	2	10737	392						
						1955	1	7500	4.0	303	1	9530	319									
						1956	1	7350	4.0	296	1	9630	339	1	10104	354						
						1957	2	9510	4.1	384	2	12075	480	1	10824	384						
						1958	1	12060	3.6	437	1	13110	526	1	10104	402						
778235	1	3	11140	4.1	449	1947	1	10850	4.2	451												
						1948	1	10910	4.0	434												
						1950	1	11660	4.0	462												
779567	1	5	12244	3.8	461	1950	1	12850	3.6	465	1	10990	432									
						1951	1	9340	4.6	426	1	10580	378									
						1953	1	12040	3.7	440				1	10039	370						
						1954	1	12710	3.4	436	1	9050	351	1	9243	374						
						1955	1	14280	3.8	536	1	9320	351	1	9723	361						
780586	116	326	12073	3.7	441	1949	4	11515	3.6	411	2	13100	447									
						1950	10	10429	3.8	391	5	12406	452									
						1951	31	12103	3.6	441	21	12444	444									
						1952	59	12309	3.7	449	45	11822	418									
						1953	68	11974	3.7	438	62	11668	418	44	11302	404						
						1954	52	12516	3.6	455	51	12093	432	24	11701	419						
						1955	35	12274	3.7	451	33	12482	447	26	12020	437						
						1956	30	12598	3.7	469	30	12960	471	23	11963	455						
						1957	15	11698	3.7	438	14	12981	474	15	12619	461						
						1958	14	13189	3.8	499	9	13203	475	10	12882	470						
						1959	7	13817	3.7	510	6	13288	486	7	12233	517						
						1960	1	13720	4.0	549	1	11420	438	1	13102	525						
						780863	8	24	13599	3.5	474	1948	2	15580	3.4	526						
												1949	5	10396	3.5	369						
												1950	5	12498	3.6	450	1	13250	497			
												1951	3	14033	3.8	530	2	12340	478			
1952	3	17507	3.4	584	3							13327	495									
1953	4	15245	3.6	551	3							12777	497	3	12070	464						
1954	2	15960	3.7	577	2							15290	521	2	13974	516						
782352	1	4	13778	3.2	436	1950	1	14260	2.9	410												
						1951	1	15700	3.1	492	1	12460	473									
						1952	1	10370	3.3	347	1	11280	402									
						1953	1	14780	3.3	495	1	11170	400	1	12600	432						
783828	2	2	13225	3.8	506	1952	2	13225	3.8	506												
784721	1	2	12665	3.4	421	1951	1	13670	3.4	459	1	10630	399									

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
						1953	HOLSTEIN 1 11660 3.3 383			1 11830 454			1 10628 372				
784746	12	29	12251	3.4	419	1949	2	14685	3.5	513							
						1950	4	13770	3.4	462							
						1951	8	11373	3.5	396	5	11330	393				
						1952	5	11602	3.4	384	5	12468	463				
						1953	3	9417	3.5	327	3	11727	440				
						1954	2	12455	3.5	435	2	12800	477	2	8426	374	
						1955	2	12800	3.6	454	2	13535	513	1	12709	467	
						1956	2	12025	3.3	396	1	14350	503	2	12862	461	
						1957	1	15060	3.5	523	1	16480	616	1	15647	507	
786324	37	105	12664	3.5	445	1948	3	13557	3.6	483	1	8020	318				
						1949	7	12527	3.7	463	1	13950	477				
						1950	11	13943	3.5	481	2	13370	469				
						1951	13	12782	3.5	441	3	14000	496				
						1952	23	12348	3.5	433	12	12216	430				
						1953	16	12474	3.5	437	15	12527	433	12	11396	403	
						1954	11	11334	3.6	403	11	11357	398	7	11191	390	
						1955	8	11343	3.6	403	8	12799	436	5	11504	408	
						1956	6	12978	3.4	436	6	12585	449	5	11894	417	
						1957	6	13400	3.5	466	6	13082	451	6	12666	432	
						1958	1	11180	3.2	360	1	14740	514	1	15009	517	
786905	7	22	14492	3.4	492	1947	1	15540	3.5	549							
						1948	5	14984	3.3	501							
						1949	5	14144	3.5	487							
						1950	4	14278	3.4	492							
						1951	3	14240	3.5	492							
						1952	2	13250	3.2	421							
						1953	1	12340	3.6	471							
						1955	1	15550	3.3	511	1	15960	528				
788556	2	9	11616	3.8	438	1948	1	9360	3.9	367							
						1949	1	9620	4.1	395							
						1951	1	12470	3.2	403	1	13410	450				
						1953	1	14020	3.3	469	1	13300	458	1	13887	481	
						1955	1	14200	3.4	488	1	15720	522	1	13538	452	
						1956	2	12895	3.7	461	2	13225	449	1	16056	532	
						1957	1	15110	3.4	521	1	16080	543	1	15086	514	
						1958	1	15140	3.6	552	1	15850	576	1	14682	542	
789084	1	1	10680	3.2	340	1948	1	10680	3.2	340							
789350	14	44	12421	3.4	426	1949	2	13395	3.7	498	1	14590	523				
						1950	3	12827	3.6	472	1	11990	492				
						1951	3	13723	3.2	437							
						1952	5	11194	3.4	381	4	12343	435				
						1953	6	11617	3.5	414	5	13770	490				
						1954	5	12980	3.5	449	5	12290	455	1	11183	404	
						1955	7	13799	3.5	478	7	12793	469	7	12353	458	
						1956	4	13650	3.6	491	4	13478	485	4	12404	457	
						1957	4	14005	3.5	491	4	13713	534	4	13800	521	
						1958	3	14857	3.3	485	1	11780	442	1	14126	524	
						1959	2	17355	3.3	574	2	13500	517	1	13091	496	
						790366	29	84	10822	3.8	407	1949	4	11790	4.2	482	1
1950	10	9958	4.0	391	1							11030	396				
1951	12	10944	3.9	429	10							10882	414				
1952	14	10772	3.9	417	14							11945	430				
1953	16	10584	3.8	404	16							12041	432	11	11403	419	
1954	12	11912	3.0	456	11							11755	431	7	11355	422	
1955	6	11615	3.6	411	6							11657	457	6	11790	440	
1956	6	12327	3.6	441	6							12093	440	5	11600	431	
1957	3	10733	3.6	384	3							12027	434	3	11830	434	
1958	1	8610	4.5	388	1							15900	596	1	14868	598	
791424	8	19	12234	3.5	426	1948	1	12950	3.8	490							
						1949	2	14215	3.7	522							
						1950	1	13530	3.5	467							
						1951	2	16095	3.0	607	1	14100	622				
						1952	1	13460	4.0	544	1	10640	411				
						1953	2	13640	3.6	497	1	12010	470	2	11058	411	
						1954	1	16520	4.1	677	1	15220	610	1	9374	372	
						1955	2	13190	3.8	504	2	11910	423	2	11821	464	
						1956	2	12025	3.4	409	1	9940	378	2	11331	401	
						1957	2	10215	3.0	288	2	10020	395	2	9952	372	
						1958	3	10620	3.3	346	1	11370	417	2	12100	434	
						791874	1	1	15350	3.3	504	1954	1	15350	3.3	504	1
791980	21	68	11878	3.7	435	1950	1	14880	3.8	559							
						1951	5	12312	3.5	430	2	12490	461				
						1952	9	12006	3.7	442	4	12253	447				
						1953	15	12384	3.7	461	10	12564	446	3	12041	426	
						1954	14	12006	3.6	432	11	13263	472	7	11952	437	
						1955	14	11883	3.7	440	12	13663	478	10	12712	466	
						1956	5	13278	3.6	469	3	13677	499	3	13603	483	
						1957	4	12288	3.5	429	2	14135	520	2	13478	495	
						1958	1	16330	3.0	498	1	14940	537	1	14050	507	
792389	1	5	10128	3.5	349	1948	1	11130	3.7	407							
						1949	1	10930	3.4	373							
						1950	1	10110	3.3	330							
						1951	1	10540	3.6	377							
						1952	1	7930	3.3	260							

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR													
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.			
HOLSTEIN																			
794731	13	32	11719	3.5	410	1947	3	14043	3.8	528									
						1948	6	11757	3.5	415									
						1949	5	11842	3.5	419	2	12285	396						
						1950	2	12105	3.6	454	2	10130	401						
						1951	2	11855	3.9	460	1	10050	408						
						1952	1	11540	4.0	459	1	9060	396						
						1953	2	13130	3.3	434	2	11490	388						
						1954	3	11740	3.6	425	3	11160	432						
						1955	3	11217	3.5	396	3	11190	414			2	12086	434	
						1956	5	10540	3.6	376	5	11040	403			3	10606	390	
																5	10154	373	
795259	6	19	12049	3.7	438	1947	1	7710	3.7	288									
						1948	1	8650	3.9	338									
						1949	1	11620	3.6	420									
						1950	3	10767	3.9	419									
						1951	4	11500	3.6	415	1	11800	458						
						1952	2	12730	3.6	438	1	12490	460						
						1953	1	8050	3.7	296									
						1954	1	17180	3.5	601	1	13690	519			1	13516	487	
						1955	1	19890	3.3	656	1	15080	536			1	14290	535	
						1956	2	15595	3.2	502	2	16095	545			1	15347	530	
						1957	1	18430	3.2	594	1	13970	456			1	15761	540	
						1958	1	16580	2.7	452	1	14750	459			1	15456	516	
796258	2	11	11915	3.8	454	1952	1	11950	4.0	481	1	13240	441						
						1953	2	12640	4.0	499	2	13130	486			2	11424	422	
						1954	2	11435	3.9	439	2	12955	475			1	11772	461	
						1955	2	12545	3.7	465	2	12775	463			2	12933	478	
						1956	2	12195	3.6	436	2	13960	497			2	12268	447	
						1957	1	11340	3.9	445	1	13640	493			1	11630	421	
						1958	1	9430	4.0	373									
796333	23	41	12769	3.5	443	1949	1	11030	3.4	373									
						1950	6	13818	3.6	498	2	14115	495						
						1951	3	10627	3.7	392	2	10065	363						
						1952	1	13940	3.9	541									
						1953	3	11680	3.7	432	3	12623	435			3	11907	428	
						1954	3	10920	3.6	397	3	12623	437			1	11467	403	
						1955	2	15470	3.5	530	2	13655	475			2	13293	469	
						1956	4	15043	3.6	566	4	15398	458			3	14177	495	
						1957													



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1951	2	15385	3.5	469						
						1952	1	14390	3.7	528						
						1955	1	12020	3.5	426						
						1956	1	12530	3.8	473						
811743	1	1	16500	3.7	618	1954	1	16500	3.7	618	1	10960	369			
813035	3	10	12323	3.7	457	1949	3	12747	3.6	461	1	12020	487			
						1950	3	12693	3.6	479	1	9540	466			
						1951	2	10715	3.7	400	1	12650	496			
						1952	1	15820	3.5	528	1	11470	493			
						1953	1	15990	3.9	549	1	9370	442	1	5624	289
815170	15	40	11094	3.7	411	1952	2	11210	3.9	437	2	12960	462			
						1953	10	11725	3.7	454	7	12161	445	6	12866	457
						1954	8	10523	3.7	584	7	11910	440	3	12019	465
						1955	8	11116	3.5	384	7	11971	442	6	12415	458
						1956	7	9971	3.5	334	6	11925	418	5	11855	458
						1957	2	11955	3.5	595	1	11250	391	1	10635	385
						1958	1	9560	3.2	504						
						1959	1	10120	4.2	430	1	10840	429	1	10311	417
						1960	1	11570	4.3	496	1	10920	449	1	10628	447
814569	1	1	9530	3.7	349	1949	1	9330	3.7	349						
815275	64	175	12760	3.5	447	1949	1	17090	3.4	579						
						1950	2	14405	3.6	515	1	15950	614			
						1951	8	12533	3.8	474	2	16055	620			
						1952	18	11339	3.7	415	15	12062	428			
						1953	34	11647	3.6	416	31	12118	456	26	11148	404
						1954	27	12658	3.5	442	24	12752	445	10	12973	460
						1955	35	13576	3.4	465	34	14012	402	24	12418	442
						1956	22	14901	3.5	516	20	15186	537	18	13490	463
						1957	14	14691	3.5	514	13	14829	520	13	14687	508
						1958	8	14726	3.4	489	6	14360	495	6	15089	555
						1959	6	14652	3.4	494	6	13647	487	4	13759	488
819064	40	105	11997	3.4	412	1950	9	11657	3.7	426	2	15020	457			
						1951	13	13377	3.4	461	7	11964	452			
						1952	16	11580	3.5	403	14	11375	414			
						1953	22	11794	3.4	400	18	11766	422	7	11010	395
						1954	17	12473	3.5	432	15	11965	455	10	11079	388
						1955	13	13355	3.4	464	11	12509	453	10	11581	414
						1956	8	14489	3.4	497	8	13268	479	5	13104	471
						1957	2	13540	3.5	455	2	15245	588	1	13396	480
						1958	4	12510	3.4	429	3	14663	546	3	14624	542
						1959	1	14620	3.2	470	1	13760	481	1	14017	482
819478	19	33	12014	3.6	435	1951	2	12225	4.1	502	1	11310	449			
						1953	5	12563	3.5	441	3	11233	436	3	10224	401
						1954	2	12055	3.4	411	2	9105	386	1	12917	477
						1955	7	12281	3.4	411	7	11660	413	6	11934	421
						1956	10	11995	3.5	423	10	11990	417	6	11294	396
						1957	5	11365	3.5	400	8	12013	419	6	12655	441
						1958	1	12350	4.2	517						
820131	25	50	11154	3.6	405	1948	1	13660	3.4	465						
						1949	5	11522	3.5	409	1	7350	342			
						1950	15	10807	3.7	391	3	12113	451			
						1951	10	10754	3.6	388	3	12143	464			
						1952	7	11049	3.5	392	4	12395	446			
						1953	5	10798	3.4	365	5	11574	410	4	10848	388
						1954	4	12503	3.2	400	4	11188	382	3	10958	309
						1955	3	10067	3.2	317	3	9513	324	3	9701	356
820661	1	1	10670	4.1	439	1955	1	10670	4.1	439	1	12480	450	1	12840	477
823055	1	5	13118	3.8	496	1953	1	12210	3.6	443						
						1954	1	11790	3.9	464	1	8740	379			
						1956	1	13780	3.7	510	1	9840	385			
						1957	1	14890	3.8	559	1	9970	392			
						1958	1	12920	3.9	502	1	15620	561	1	11249	469
824340	14	35	12654	3.8	474	1951	1	11830	3.6	428						
						1952	4	11208	3.8	422	4	11405	415			
						1953	5	11562	3.9	448	5	11698	430	5	11729	418
						1954	8	12956	3.8	465	8	11631	419	4	12560	463
						1955	6	12540	3.7	471	6	11255	393	2	11680	429
						1956	4	13440	3.7	500	4	11625	390	2	11156	404
						1957	2	12255	3.6	452	2	11690	407	2	11789	411
						1958	3	13693	3.7	498	2	13020	438	2	13205	458
						1959	2	12035	3.6	428	2	13100	454	2	13086	458
825351	51	110	11905	3.6	425	1947	2	15335	3.7	489						
						1948	1	16000	3.6	572						
						1949	2	15875	3.7	567						
						1950	2	15495	3.9	605						
						1951	2	13715	3.9	531						
						1952	3	15515	3.6	549						
						1953	15	12457	3.6	440	12	11794	421	7	11071	403
						1954	28	12458	3.5	432	26	12350	459	12	12175	457
						1955	28	12016	3.6	451	25	11458	415	16	12040	425

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AMP. FAT LB.	AV. RECORDS NO.	YEARLY HERE MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1956	11	12467	3.6	453	10	12423	452		8	11901	427
						1957	9	12247	3.7	448	9	12150	431		6	11334	410
						1958	3	12653	3.6	452	3	12353	447		2	12023	421
						1959	4	10590	3.8	398	4	11678	435		3	10799	399
826750	1	1	13660	3.6	497	1951	1	13660	3.6	497							
827425	49	124	11829	3.5	415	1943	3	12217	3.7	456							
						1949	10	12829	3.5	448	3	13460	417				
						1950	17	11586	3.6	403	3	12777	457				
						1951	16	10423	3.6	374	10	11562	418				
						1952	17	11881	3.4	403	12	12548	448				
						1953	17	11711	3.6	418	16	11392	409		11	11444	405
						1954	16	12311	3.4	417	14	12698	439		8	11486	411
						1955	10	11922	3.5	413	10	11208	408		5	11430	409
						1956	7	13339	3.4	461	6	12580	454		4	12113	441
						1957	5	14966	3.4	509	5	13654	492		5	12844	477
						1958	4	14153	3.5	494	4	12793	468		4	11851	434
						1959	2	9090	4.2	387	2	8050	357		2	8339	368
828184	134	334	11149	3.6	399	1947	4	9660	3.7	356							
						1948	5	10790	3.5	385							
						1949	7	10591	3.6	383	3	11673	415				
						1950	28	11323	3.6	426	14	11854	443				
						1951	32	10969	3.7	410	20	10922	400				
						1952	42	11110	3.7	406	29	11354	404				
						1953	57	11526	3.6	415	54	11974	429		38	11232	407
						1954	49	11199	3.6	401	48	11527	409		29	10316	365
						1955	47	11819	3.5	414	46	11760	423		37	11281	405
						1956	23	11507	3.6	409	22	11482	422		18	11179	407
						1957	21	12523	3.5	436	20	11342	423		20	10888	399
						1958	14	10421	3.6	375	13	12367	444		9	11969	446
						1959	5	9210	3.6	332	5	11318	417		4	11966	432
828503	3	9	12251	3.5	421	1949	4	12638	3.4	428							
						1950	1	15980	3.6	369							
						1951	2	11425	3.5	405							
						1952	1	10320	3.4	352							
						1953	1	7910	3.8	298							
828803	6	8	12269	3.8	457	1953	4	13625	3.9	520	3	13313	485		3	11438	423
						1954	2	8775	3.7	323	2	11240	393				
						1955	1	13590	3.0	411	1	11780	401		1	10802	401
						1959	1	11660	3.3	385	1	8260	355		1	10867	396
829607	1	1	12150	3.7	455	1948	1	12150	3.7	455							
829960	3	4	10198	3.7	374	1951	1	10680	3.9	414							
						1952	1	9890	3.4	338							
						1953	1	12730	3.8	478	1	11310	408				
						1956	1	7580	3.5	269	1	9720	335				
831073	5	12	14360	3.5	505	1954	3	14853	3.4	504	3	12460	451				
						1955	3	13683	3.5	481	2	10910	390		1	11151	413
						1956	2	13790	3.6	487	2	12120	457		1	12568	474
						1957	1	16170	4.0	643	1	13690	508		1	13363	493
						1958	2	14505	3.6	522	1	12090	468		1	13265	488
						1959	1	15700	3.6	567	1	10450	411				
831321	11	21	13057	3.6	473	1954	1	11950	3.8	456	1	13180	473				
						1955	8	13261	3.7	483	8	12488	449		6	11941	434
						1956	5	13196	3.3	440	5	13394	474		3	12255	433
						1957	4	14270	3.6	518	4	12435	429		4	13216	464
						1958	2	14425	3.6	518	1	16570	592		1	14998	526
						1959	1	10870	3.6	388	1	11750	430		1	11401	408
832079	5	16	11889	3.7	434	1950	2	11245	3.8	423	1	11740	414				
						1951	3	11657	3.8	437	2	12300	449				
						1952	2	12745	3.9	486	2	12005	417				
						1953	4	9953	3.9	381	4	12048	434		3	12186	421
						1955	2	11665	3.9	454	2	10170	375		2	10660	387
						1956	1	11170	3.7	414	1	12960	495		1	11914	452
						1957	2	12855	3.8	485	2	13515	517		1	12284	465
835403	1	1	13570	4.0	543	1949	1	13570	4.0	543							
835595	14	33	11791	3.6	426	1951	3	11197	3.7	410	1	11050	413				
						1952	5	12212	3.8	461	4	12423	455				
						1953	9	11318	3.5	396	8	11525	408		7	10794	388
						1954	3	13857	3.7	513	3	12840	461		2	11892	459
						1955	4	11983	3.8	459	4	11688	434		3	10805	395
						1956	5	11330	3.6	400	4	12138	424		2	11195	423
						1957	1	14840	3.5	522	1	13770	494		1	13723	517
						1958	2	14935	3.6	537	2	13035	479		2	12710	477
						1960	1	12720	3.6	459	1	11530	425		1	11881	426
837641	6	12	14284	3.6	514	1952	1	20060	3.4	684	1	11760	410				
						1953	3	13243	3.6	479	2	11660	420				
						1954	2	15845	3.8	586	2	13920	481				
						1955	1	13780	3.6	501	1	14180	542				
						1957	2	15305	3.5	528	2	12830	459		2	12143	444
						1958	3	13463	3.6	487	2	12720	471		3	9265	478
838718	22	50	10740	3.6	383	1952	5	11596	3.8	439	5	12056	428				
						1953	6	10575	3.6	382	8	13231	475		8	12161	444
						1954	16	11399	3.6	404	16	12823	460		6	12450	454
						1955	10	10837	3.4	373	10	12417	442		7	13018	461
						1956	4	11578	3.5	400	4	12910	449		3	13102	461
						1957	5	12880	3.4	441	4	12400	450		4	12993	458

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

[illegible]

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
847176	2	3	11145	3.5	390	1952	1	11000	3.5	384							
						1953	1	11990	3.4	407							
						1954	1	10590	3.6	382	1	10200	394	1	9995	378	
847222	17	44	13478	3.5	478	1950	5	15560	3.6	563							
						1951	2	13885	3.5	485							
						1952	5	14496	3.4	499							
						1953	9	14554	3.6	537	1	11750	436	1	11543	411	
						1954	8	12388	3.6	446	4	11873	445	3	12586	463	
						1955	6	11550	3.5	417	3	11573	425	1	12350	477	
						1956	4	12780	3.3	426	2	11290	401	1	13298	493	
						1957	3	14130	3.7	512	3	12657	469	3	12939	478	
						1958	1	12750	4.1	529							
						1959	1	16140	3.0	484	1	13140	473	1	12927	462	
847505	1	1	8510	3.8	326	1959	1	8510	3.8	326	1	10660	377				
850298	12	19	13028	3.7	483	1953	2	11830	3.7	436	2	11175	387				
						1954	2	12575	3.8	465	2	11805	434	1	12306	431	
						1955	2	11110	3.6	392	2	11475	396	2	10939	393	
						1956	1	10910	3.9	423	1	11930	446	1	12023	443	
						1957	2	12310	3.5	424	1	10550	374	1	12132	434	
						1958	4	16810	3.9	647	2	16240	652	2	15151	529	
						1959	5	11656	3.7	430	4	12568	448	5	9978	448	
						1960	1	10370	3.8	391	1	7840	355				
854210	1	1	11040	3.6	400	1954	1	11040	3.6	400							
854723	9	19	10686	3.6	388	1954	5	10310	3.8	386	5	12484	458	1	9374	372	
						1955	6	10948	3.7	407	6	13282	481	6	12272	443	
						1956	4	12063	3.6	429	4	13120	480	3	13033	459	
						1957	2	11325	3.9	442	2	11385	406	2	13505	494	
						1958	2	11655	4.2	481	1	12750	477	1	15151	529	
856661	4	4	10155	3.5	348	1958	2	8310	3.7	289	1	840	33				
						1959	2	12000	3.3	406	2	11500	421				
858839	4	9	13488	3.6	489	1949	1	14750	4.1	598							
						1950	2	15930	3.8	607	1	14750	511				
						1951	1	10690	3.6	389							
						1952	3	13740	3.8	515	2	13735	500				
						1953	2	13460	3.3	449	1	15460	531	1	13156	479	
859238	2	5	13907	3.6	493	1953	1	16000	3.7	595	1	14270	549	1	13418	500	
						1954	1	14120	3.8	535	1	14260	526	1	13036	500	
						1955	1	9160	3.6	326	1	12840	456	1	13015	471	
						1956	1	15890	3.1	494	1	14360	465	1	10769	360	
						1958	1	13210	3.3	439							
862295	1	1	9700	3.3	320	1954	1	9700	3.3	320	1	11290	395				
863227	2	4	14417	3.3	474	1947	1	14440	3.6	517							
						1949	2	14235	3.0	424							
						1951	1	14710	3.0	446							
863763	1	7	15691	3.5	561	1951	1	12500	3.5	443	1	7220	369				
						1952	1	13700	3.5	484	1	9460	444				
						1954	1	16230	3.5	575	1	14340	531				
						1955	1	17330	3.7	641	1	12670	443	1	9091	398	
						1956	1	17430	3.6	636	1	13630	514	1	13209	528	
						1957	1	17300	3.7	647	1	12210	442	1	13654	486	
						1959	1	15350	3.2	498	1	12490	451	1	12328	445	
864818	10	25	11688	3.6	415	1952	2	7975	3.9	309							
						1953	4	12203	3.5	428	4	12835	462	2	13631	475	
						1954	5	12200	3.5	430	5	13114	468	3	11220	410	
						1955	4	11195	3.5	399	4	13030	481	4	12042	419	
						1956	4	12340	3.5	429	3	13887	502	4	13195	466	
						1957	3	12407	3.5	438	3	12827	477	3	13480	486	
						1958	1	10710	3.3	350							
						1959	1	15250	3.6	543	1	16850	639	1	14889	568	
						1960	1	13470	3.8	513	1	11900	434	1	13494	482	
865315	3	5	13402	3.7	488	1955	1	12200	3.2	390	1	14530	537	1	15642	550	
						1956	1	11140	4.4	490	1	15420	522	1	12764	449	
						1958	2	16950	3.5	594	1	16110	585				
						1959	1	16700	3.4	564	1	13900	522	1	15184	536	
865323	10	16	12836	3.8	486	1954	3	11820	3.7	437	3	12653	510	2	12388	455	
						1955	4	13083	3.8	492	4	11890	439	3	10657	384	
						1956	3	12150	3.8	458	3	12423	465				
						1957	1	9270	3.8	351	1	13950	512	1	13494	486	
						1958	2	11775	3.8	443	2	11555	432	2	12045	443	
						1959	3	13307	4.1	531	2	14315	519	2	7140	461	
865325	11	17	12679	3.6	454	1955	3	14933	3.5	520	3	12543	447	3	12132	422	
						1956	6	14240	3.5	502	6	12075	441	5	12620	448	
						1957	4	12535	3.4	431	4	12395	439	3	12332	435	
						1958	3	16043	3.6	574	3	17333	633	3	14908	517	
						1960	1	9160	4.2	387	1	11660	459	1	11925	460	

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
866063	1	4	9255	3.7	343	1952	1	11310	3.5	401	1	9810	367			
						1953	1	7726	3.9	296	1	8010	295		1	10039
						1954	1	8390	3.6	306	1	8490	317		1	9243
						1955	1	9600	3.8	367	1	9780	369		1	9723
867431	9	19	10122	3.5	361	1948	1	8000	3.2	258						
						1949	6	10793	3.7	395						
						1950	4	9858	3.6	357						
						1951	2	9990	3.7	364						
						1952	2	11145	3.6	398						
						1953	1	10660	3.5	374						
						1954	1	13000	3.4	443						
						1955	1	11260	3.3	366						
						1956	1	9480	3.2	302						
869066	16	41	11676	3.7	431	1950	3	13507	3.7	509	1	15040	511			
						1951	3	10907	3.7	402	2	14135	511			
						1952	9	12187	3.6	457	7	12959	463			
						1953	8	12168	3.8	461	7	11999	436	6	12041	437
						1954	7	10689	3.7	390	7	13044	457	3	12030	424
						1955	3	12917	4.0	518	3	13667	486	3	11689	410
						1956	2	13805	3.5	477	2	13780	471	2	12960	461
						1957	2	13770	3.8	523	2	13560	475	1	9745	361
						1958	3	12763	3.4	429	3	14957	527	1	13058	453
						1959	1	11610	3.5	410	1	11460	430	1	14857	566
869946	1	2	9010	4.0	353	1958	1	12860	3.8	492						
						1959	1	5160	4.1	214	1	10960	387			
870736	1	1	14630	3.6	530	1955	1	14630	3.6	530	1	14720	548		1	12622
872775	25	78	12086	3.5	428	1950	7	15234	3.7	565						
						1951	5	15982	3.7	590						
						1952	9	12661	3.6	459	5	11058	427			
						1953	15	12721	3.6	460	9	11410	421	6	10788	405
						1954	17	11563	3.4	394	13	11176	407	8	10237	372
						1955	9	12122	3.5	423	7	11913	437	6	10535	390
						1956	7	12926	3.3	429	7	11669	445	6	11943	442
						1957	5	13540	3.4	459	3	13080	493	2	13533	491
						1958	4	11075	3.2	360	3	11883	444	3	12168	443
872945	1	1	13710	3.8	514	1959	1									



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
						1954	4	8865	3.8	333	3	10930	390	2	9265	339
						1955	3	10260	3.7	382	3	10483	376	3	10409	370
						1956	4	9838	3.7	363	4	11773	424	4	10453	373
						1957	4	14530	3.8	552	4	14105	506	4	12761	446
						1958	1	16770	3.7	618	1	14490	511	1	13167	480
						1959	5	14026	3.5	503	4	12815	449	5	10521	468
						1960	1	7950	3.2	252				1	12813	417
884209	8	33	12524	3.6	453	1949	2	14170	3.7	524						
						1950	2	16045	3.5	555						
						1951	4	15063	3.5	533						
						1952	3	13970	3.6	495						
						1953	7	11919	3.6	432	1	10940	387	1	9461	351
						1954	6	12495	3.6	450	1	12600	447	1	9777	360
						1955	7	12394	3.5	441	1	13990	512	1	11739	417
						1956	2	11910	3.6	428						
						1957	1	10430	3.4	355						
884544	3	9	10606	3.5	378	1950	2	11930	3.6	422						
						1951	1	9880	3.6	354	1	9920	333			
						1952	2	10655	3.6	387	1	11710	436			
						1953	1	13820	3.5	477	1	11310	399			
						1954	1	13576	3.8	509	1	14680	511			
						1955	1	8920	3.2	289	1	14560	477	1	11630	399
						1956	1	11140	3.6	420	1	15030	477			
885172	2	6	11928	3.9	452	1949	1	14600	3.4	498						
						1950	1	16220	3.6	590						
						1951	1	15300	3.6	556						
						1954	1	9520	4.4	415	1	15160	620	1	9374	372
						1955	1	9480	3.9	374	1	12410	465	1	11903	484
						1956	1	6450	4.3	275	1	10980	397	1	12230	474
886174	47	122	12667	3.6	451	1952	2	14960	3.6	546	1	13280	479			
						1953	23	12715	3.6	455	22	12454	456	14	12833	465
						1954	28	12960	3.6	465	25	12068	438	11	12056	442
						1955	25	12254	3.6	439	25	12106	435	20	12135	446
						1956	22	12840	3.5	454	22	13141	472	19	12296	444
						1957	10	12766	3.7	464	9	12130	449	7	11646	424
						1958	8	13250	3.7	484	6	13137	494	6	12528	465
						1959	4	13795	3.6	494	3	12807	474	4	9679	452
886818	12	13	11962	3.8	447	1956	4	10585	3.8	390	4	13118	460	1	13276	473
						1957	2	9780	3.7	363	2	11805	433	2	10601	408
						1958	3	12380	3.9	485	3	13850	554	3	12437	505
						1959	4	13688	3.7	494	4	14303	553	4	12361	482
887664	5	14	10946	3.9	424	1948	3	9870	3.9	386						
						1950	1	13310	3.6	479	1	15210	550			
						1951	2	11810	4.1	467	2	12690	477			
						1952	2	13270	3.6	500	2	14420	526			
						1953	2	11130	3.9	428	2	13550	518	2	14944	547
						1954	1	10790	4.2	453	1	13430	495	1	14977	549
						1955	1	13840	3.7	517	1	17240	643	1	13102	497
						1957	1	13160	3.9	507	1	15750	552	1	13908	502
						1958	1	13010	3.9	508	1	15170	578	1	14944	556
889438	3	15	12965	3.4	444	1949	1	15030	3.2	480	1	12640	457			
						1950	1	9720	3.5	345	1	12470	420			
						1951	3	13137	3.5	457	3	12707	454			
						1952	4	13625	3.4	452	4	12675	465			
						1953	3	13120	3.5	458	3	11577	412	3	12113	434
						1954	2	13540	3.4	450	2	12280	427	2	11669	423
						1955	1	11190	2.9	322	1	12840	408	1	12208	408
889586	4	11	12580	3.5	443	1949	1	15980	3.7	585						
						1950	1	16370	3.6	596						
						1951	1	10090	3.7	369						
						1952	3	12527	3.5	445						
						1953	1	12670	3.6	467						
						1954	3	12775	3.4	433						
						1955	1	11520	3.5	399						
889698	60	144	11487	3.8	432	1952	4	12085	3.8	450	4	12598	454			
						1953	20	12286	3.8	468	19	11822	423	16	11470	413
						1954	35	11162	3.8	424	34	11582	416	19	11416	414
						1955	33	11045	3.7	410	32	12163	440	27	11763	431
						1956	24	11490	3.7	427	23	12050	433	17	11344	411
						1957	9	11520	3.9	453	8	12330	456	8	11766	431
						1958	11	12330	3.7	453	7	11920	433			
						1959	7	12427	3.7	455	7	11591	426	7	13049	475
						1960	1	10350	3.9	400	1	11110	402	1	11521	426
890181	5	17	13876	3.8	513	1954	1	12310	4.7	584	1	12610	425			
						1955	1	12930	4.5	584	1	13510	467	1	14344	499
						1956	2	12795	4.1	515	2	13460	482	1	12709	452
						1957	3	12837	4.1	524	3	12510	492	2	13391	480
						1958	5	14922	3.7	541	3	13797	506	4	10219	466
						1959	4	14825	3.5	514	3	13893	514	4	10426	498
						1960	1	10790	3.3	359	1	15640	537	1	14628	495
890463	14	26	12088	3.6	432	1955	6	13257	3.6	491	6	13532	498	6	12012	467
						1956	6	12645	3.7	460	6	13345	481	6	11834	416
						1957	5	11882	3.4	405	5	12446	459	5	10926	410
						1958	5	12086	3.7	454	4	13115	490	3	12124	448
						1959	4	11350	3.6	398	3	12303	449	4	12511	453

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVL. FAT LB.
HOLSTEIN																
891850	3	8	11508	3.7	434	1953	1	13370	4.0	541	1	11280	453	1	12688	491
						1954	1	16740	3.9	657	1	10690	434	1	11183	436
						1955	1	17690	3.7	655	1	12210	482	1	10453	426
						1957	1	14316	3.8	543	1	10910	391	1	11750	464
						1958	1	14180	3.7	527	1	14130	564	1	11641	450
						1959	3	11387	3.7	430	3	13190	499	1	11968	461
892538	2	3	11153	3.6	391	1953	1	9870	3.5	345	1	14200	435	1	12927	425
						1954	1	12696	3.4	426	1	11290	417			
						1955	1	12180	3.7	447	1	10800	387	1	10660	389
893543	11	32	11988	3.4	407	1947	4	11068	3.5	389						
						1948	6	11878	3.4	400	2	10290	347			
						1949	8	12426	3.5	426	2	10605	363			
						1950	5	12262	3.3	405	1	13350	440			
						1951	2	13755	3.4	464	1	12030	398			
						1952	2	15970	3.4	549	1	12630	425			
						1953	1	13390	3.3	441	1	11410	390			
						1954	1	14910	3.3	498	1	12070	374	1	13342	465
						1955	2	10515	3.1	322	✓	11500	406	2	11903	409
						1956	1	15520	3.4	527	1	12540	441	1	11685	410
						894515	1	3	11473	3.4	392	1949	1	11040	3.5	389
1950	1	11490	3.4	390												
1951	1	11890	3.3	398												
894536	1	2	16320	3.8	618	1959	2	16320	3.8	618	1	14170	525			
894806	1	1	13350	3.8	503	1960	1	13350	3.8	503	1	12400	450	1	12720	471
895364	2	4	12115	3.8	447	1948	1	8840	4.0	351						
						1949	2	12145	3.6	438						
						1950	1	15330	3.7	561						
895906	3	8	13391	3.7	481	1953	1	14580	3.8	559	1	13400	461			
						1954	2	12115	4.0	474	2	11760	403			
						1955	1	14310	3.5	497	1	12960	470	1	13516	469
						1956	1	13210	4.2	548	1	15210	516	1	12764	449
						1957	2	15800	3.4	530	2	13530	457	1	13396	470
						1958	1	14510	3.2	460						
895914	3	7	10794	3.5	372	1954	1	14460	2.8	400	1	12970	464			
						1955	3	10943	3.4	379	3	12623	459			
						1956	1	8310	3.7	310	1	8060	302			
						1957	1	8860	3.7	324	1	7800	303	1	7859	290
						1958	1	6120	3.9	236	1	6890	259	1	7881	294
898594	13	25	11118	3.5	396	1953	2	11390	3.8	434	2	11770	457	2	9865	372
						1954	3	14470	3.6	555	3	12697	448	2	12726	463
						1955	2	9915	3.7	363	2	12055	437	2	12143	424
						1956	2	10330	3.6	375	2	12525	445	2	12208	434
						1957	2	9180	3.9	347	1	12900	462	1	11914	429
						1958	6	12092	3.5	404	2	10900	400			
						1959	7	10301	3.4	345	4	10635	395			
						1960	1	13550	3.5	469	1	11270	463	1	10856	412
898622	9	18	11989	3.7	436	1955	1	7060	3.8	270	1	11570	385	1	11532	379
						1956	5	12706	3.7	459	5	13028	462	3	13015	433
						1957	6	11973	3.9	463	6	11587	390	5	12581	428
						1958	4	12073	3.6	428	3	13193	441	3	12379	436
						1959	1	13600	3.0	402	1	14130	452	1	14290	436
						1960	1	14440	3.3	482	1	14770	420	1	16590	506
899834	2	3	11585	3.7	419	1949	1	13730	3.5	476						
						1950	2	11060	3.7	464						
900274	7	16	13187	3.9	511	1955	3	15247	3.8	579	3	13770	518	3	12637	485
						1956	3	15463	4.0	609	1	11330	455	3	11874	432
						1957	2	11950	3.9	478	1	12610	470	2	11483	425
						1958	4	12970	4.1	532	3	12670	461	4	10058	476
						1959	3	11753	3.8	439	3	12337	424	3	12023	434
						1960	1	15030	3.9	582	1	13910	545	1	11979	467
901196	1	3	13663	4.3	594	1956	1	12660	4.2	527	1	15130	521			
						1957	1	13610	4.4	603						
						1958	1	14720	4.4	651	1	14650	524			
901453	1	4	11970	3.6	429	1949	1	11060	3.6	401						
						1950	1	11540	3.6	420						
						1952	1	12290	3.5	436						
						1953	1	12990	3.5	457						
903191	1	3	9190	3.8	359	1955	1	12690	4.1	523	1	14070	496	1	12186	451
						1957	1	8550	3.9	337	1	12730	448	1	13026	479
						1958	1	6330	3.4	216	1	11110	397	1	13527	486

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
903887	1	3	18030	3.4	627	1948	1	21610	3.5	762						
						1949	1	16350	3.5	578						
						1950	1	16130	3.5	540						
904220	2	2	9635	3.5	339	1957	2	9635	3.5	339	2	10420	354	2	11140	391
905927	7	12	14116	3.7	516	1953	1	16210	3.9	625	1	14520	538			
						1954	4	14650	3.6	519	4	11805	422	1	13211	475
						1955	5	12958	3.8	492	5	12532	452	3	12219	428
						1956	1	15240	3.5	541	1	12980	435	1	12241	411
						1959	1	15160	3.7	562				1	13320	552
906000	12	20	12803	3.9	504	1955	1	8480	4.1	345	1	9520	324			
						1956	1	14890	3.3	496	1	11950	461	1	10867	405
						1957	3	11847	3.7	443	3	12350	469	3	11732	459
						1958	5	14240	4.3	605	4	13713	511	5	11384	522
						1959	10	13718	3.9	534	8	13418	489	9	10370	476
906439	12	20	11330	3.5	396	1955	4	11725	3.7	426	4	12508	455	4	11565	449
						1956	9	11574	3.5	398	9	11496	425	6	10112	380
						1957	5	10542	3.6	374	5	11670	433	3	11402	435
						1958	2	12320	3.7	451	1	11970	471	1	11347	463
906807	4	6	12220	3.4	416	1949	2	12390	3.4	420						
						1950	2	11640	3.4	396						
						1954	1	13450	3.7	498	1	11230	410	1	10715	413
						1955	1	12090	3.4	415	1	11130	408	1	10050	374
908807	133	255	12279	3.4	419	1951	1	11890	3.6	423	1	10330	373			
						1952	14	12981	3.4	439	8	12785	463			
						1953	26	12085	3.5	421	24	11424	405	18	11164	399
						1954	32	11882	3.4	406	31	12029	424	19	12507	435
						1955	45	12598	3.4	423	44	12395	440	31	11525	412
						1956	55	12627	3.5	441	50	12474	448	40	11800	426
						1957	37	12489	3.5	438	35	11905	428	32	12542	455
						1958	22	13130	3.4	439	17	12580	448	14	12232	438
						1959	19	12447	3.3	408	17	12619	453	16	11207	460
						1960	4	12170	3.4	412	4	11335	397	4	13547	472
909753	1	1	13180	3.6	468	1950	1	13180	3.6	468						
910333	40	76	12697	3.5	439	1952	1	16370	3.5	538	1	11950	422			
						1953	12	11872	3.5	405	10	10794	375	8	11324	399
						1954	21	11849	3.5	414	20	12277	426	14	12300	432
						1955	15	13309	3.6	474	15	12905	459	12	12080	440
						1956	12	12867	3.6	456	12	13177	485	12	12760	453
						1957	7	12191	3.6	436	7	12981	466	7	12437	451
						1958	4	14435	3.6	519	3	10763	393	3	14148	529
						1959	4	14038	3.3	460	3	13240	472	3	14439	527
910630	13	23	11597	3.8	436	1954	2	11470	4.0	445	2	12110	433			
						1955	3	11423	3.7	418	3	12387	438	2	11336	409
						1956	5	12076	3.6	442	5	13250	472	4	12107	440
						1957	5	10882	3.9	429	5	12256	460	5	11434	420
						1958	4	14053	3.8	520	2	13755	528	2	13745	491
						1959	4	11688	3.7	436	3	11223	405	4	8718	389
910991	16	22	14952	3.8	561	1958	5	14732	4.0	585	2	13605	493			
						1959	16	15310	3.8	570	13	13655	510	13	10992	520
						1960	1	10250	3.9	402	1	11900	414	1	12568	440
911020	14	25	12502	3.5	438	1957	2	11205	3.7	407						
						1958	14	12939	3.5	450	7	12644	453			
						1959	8	12701	3.5	440	6	12707	473			
						1960	1	11510	3.6	413	1	17970	791	1	12524	475
915690	3	7	12140	3.6	442	1948	1	12570	3.6	456						
						1949	2	12840	3.7	481						
						1950	1	8440	4.0	342						
						1954	1	12860	3.8	488						
						1955	1	8220	3.7	307	1	10710	386			
						1957	1	13530	3.5	470	1	14720	476	1	14682	469
915811	3	10	14363	3.6	507	1956	2	15845	3.2	503	2	14690	561	2	13734	502
						1957	1	15380	3.3	505						
						1958	1	15810	3.5	483	1	13680	526	1	14366	544
						1959	4	14120	3.7	521	3	14760	564	4	11543	571
						1960	2	13765	3.7	504	2	11740	444	2	13342	497
915952	4	8	9199	3.7	335	1951	2	8205	3.7	501						
						1952	2	9350	3.8	551						
						1953	2	10090	3.8	380						
						1954	1	5580	3.4	191						
						1957	1	10590	3.7	388	1	7800	364			
916471	2	4	10703	3.7	388	1957	2	9965	3.6	558	2	11455	417	2	12481	456
						1959	1	11860	3.6	428	1	11270	375			
						1960	1	11020	3.7	406	1	9300	352	1	11718	417
918396	1	1	12970	4.2	539	1959	1	12970	4.2	539	1	13310	514			
919608	6	7	12150	3.5	426	1956	1	7510	3.4	259	1	14720	536	1	12709	452
						1957	3	14983	3.5	523	1	10940	385	2	12328	453
						1959	3	11490	3.5	403	3	13107	459	3	12397	439
920561	213	339	12773	3.6	461	1953	3	10857	3.7	398	2	12025	433	2	11031	395
						1954	14	14176	3.5	501	14	12514	456	6	11536	412
						1955	39	12484	3.6	445	37	12682	454	28	11256	412

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1956	62	13174	3.6	469	58	12881	461	49	12306	443
						1957	65	12634	3.6	456	61	12697	458	49	12547	456
						1958	78	12867	3.6	463	53	12958	465	50	11320	458
						1959	70	13175	3.7	483	60	13118	470	56	11157	461
						1960	8	10556	3.8	394	7	12769	460	5	12714	471
921321	1	2	11035	4.2	459	1955	1	11070	4.1	452	1	13450	500	1	12393	455
						1956	1	11000	4.2	465	1	14070	513	1	12263	462
922420	2	5	12392	4.1	508	1953	1	10720	3.9	413	1	11090	406	1	10453	364
						1954	1	12960	3.9	511	1	12330	437			
						1956	2	13265	4.2	547	2	14945	539	2	12715	459
						1959	1	11970	4.2	508	1	13160	488	1	14235	510
923974	6	14	10747	3.6	385	1950	2	10300	3.8	389	1	12190	413			
						1951	3	10203	3.8	385						
						1952	2	8905	3.7	328	1	9990	337			
						1953	3	10250	3.5	365	2	11505	412	1	11423	397
						1954	1	8980	3.8	341	1	10130	341	1	13233	434
						1955	1	11010	3.5	381	1	12620	440	1	9625	335
						1956	1	11090	3.4	374	1	10700	372	1	12306	454
						1957	1	11350	3.3	378	1	12930	455			
923975	3	8	12434	3.3	414	1949	1	13530	3.3	451						
						1950	1	10060	3.3	332						
						1951	1	13150	3.8	497						
						1953	1	13810	3.3	455						
						1955	2	13815	3.5	482	1	12020	477			
						1956	2	11315	3.2	360	1	12360	469	1	12088	481
925396	3	3	12597	3.7	475	1956	1	12080	3.9	475	1	11730	420	1	10486	375
						1957	1	14310	3.8	549	1	15850	587			
						1958	1	11400	3.5	401	1	13360	485			
925549	1	4	11243	4.2	470	1953	1	10360	4.6	481	1	13970	495	1	15849	564
						1954	1	10920	4.2	457	1	13830	504			
						1955	1	11120	4.0	447	1	14590	531	1	15642	550
						1956	1	12570	3.9	495	1	15710	566	1	14704	510
926104	24	39	14276	3.5	495	1955	1	15280	3.4	516	1	14160	492	1	13680	479
						1956	10	14889	3.5	509	10	15562	535	9	13372	458
						1957	17	14023	3.5	491	17	14396	500	15	14509	504
						1958	9	14884	3.5	523	8	14063	493	9	14235	502
						1959	2	13205	3.4	449	2	14665	505	2	15053	510
926363	4	8	12934	3.8	489	1956	2	15635	4.0	608	2	12545	466	1	13265	491
						1957	2	11600	4.0	459	1	12030	472	2	13844	496
						1958	3	11193	3.8	421	1	13250	491			
						1960	1	8950	3.6	318	1	11290	403	1	11783	426
927863	3	9	8843	3.8	337	1952	1	9290	3.8	355	1	9470	372			
						1953	3	8580	3.9	338	2	9255	354	2	8687	346
						1954	2	8945	4.0	358	2	10315	398			
						1955	1	8960	4.3	385	1	10820	448	1	8960	378
						1956	1	7850	4.2	328	1	7520	296	1	9385	390
						1957	1	9650	4.1	397	1	8470	347	1	10061	407
931107	1	1	10150	4.0	410	1959	1	10150	4.0	410	1	11500	419	1	12938	470
932078	1	2	8640	3.5	295	1956	1	9520	3.5	329	1	14190	511	1	13189	451
						1957	1	7760	3.4	261	1	10940	403	1	12481	456
933199	1	1	9050	3.4	306	1958	1	9050	3.4	306	1	10830	402	1	11794	446
933248	1	2	16675	3.9	647	1958	1	14590	3.8	556	1	16150	585	1	15860	584
						1959	1	18760	3.9	738	1	13790	512	1	15184	556
934021	38	67	12835	3.7	472	1954	3	10590	3.9	416	3	10740	397	1	13036	500
						1955	13	12391	3.7	457	13	13528	471	9	12718	445
						1956	21	13035	3.6	467	21	12916	471	18	12635	453
						1957	15	13736	3.7	499	13	12661	464	11	12309	453
						1958	8	15016	3.6	535	5	13496	497	6	11102	503
						1959	7	12590	3.8	484	7	12707	457	7	13382	484
938595	325	565	13294	3.5	463	1953	5	14728	3.4	494	5	12870	476	3	12699	455
						1954	49	12846	3.5	441	44	12344	444	21	11999	430
						1955	110	13438	3.5	470	102	12434	451	86	12198	440
						1956	121	13846	3.4	474	119	12697	463	97	12308	441
						1957	94	12993	3.5	450	88	12910	477	76	12206	446
						1958	97	13692	3.6	485	72	12992	483	72	11974	466
						1959	78	13249	3.5	466	68	12715	465	75	11447	477
						1960	11	12047	3.3	401	10	12758	455	8	12888	460
939074	180	319	12291	3.5	430	1952	1	16370	3.0	496						
						1953	13	13451	3.5	465	11	11917	444	9	11629	422
						1954	31	12048	3.5	418	29	11654	421	9	12626	442
						1955	56	12326	3.5	430	55	12123	441	43	11626	427
						1956	64	12887	3.5	449	61	13055	474	51	12383	444
						1957	57	12012	3.6	430	55	12562	457	43	12507	453
						1958	49	12356	3.5	434	39	12529	453	34	11608	445
						1959	39	12571	3.5	440	36	12088	438	33	11704	444

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1960	9	11487	3.6	409	9	12292	449	3	12858	476
939181	48	111	13881	3.5	480	1952	6	13397	3.3	444	2	10385	351			
						1953	11	14301	3.4	480	6	12788	442	6	11621	416
						1954	22	13693	3.6	486	18	12584	450	10	12118	440
						1955	23	13378	3.5	460	19	12404	435	16	11754	426
						1956	21	14076	3.6	502	16	12943	453	15	12477	435
						1957	12	12363	3.7	447	8	12595	449	9	12354	437
						1958	15	14474	3.5	502	10	13526	485	9	13413	483
						1959	1	9970	3.6	362	1	13190	436	1	10355	377
941181	2	5	15863	3.7	582	1955	1	15100	3.7	558	1	14490	556	1	12666	482
						1956	1	14930	3.4	509	1	13770	497	1	12579	456
						1957	1	16190	3.4	551	1	16020	571	1	13058	494
						1959	1	14880	3.9	579	1	16240	617	1	14889	568
						1960	1	16450	3.7	614	1	16670	608	1	15086	562
941509	1	2	8270	4.0	326	1951	1	9810	3.9	381	1	11500	422			
						1953	1	6730	4.0	271	1	11560	398	1	10628	372
941953	24	46	12209	3.5	419	1954	9	10990	3.4	367	8	12686	450	5	12583	467
						1955	12	13490	3.4	453	12	12934	460	12	12308	450
						1956	11	12364	3.5	434	10	14748	519	11	12764	445
						1957	10	12788	3.5	450	10	13156	467	10	13262	470
						1958	3	12207	3.5	423	3	14157	514	3	14850	537
						1959	1	19770	3.3	659	1	16840	562			
943229	1	4	13093	3.3	437	1951	1	15490	3.6	563	1	13410	484			
						1953	1	13680	3.4	468	1	12530	434	1	13429	451
						1954	1	12020	3.2	380	1	10810	358	1	11946	409
						1955	1	11180	3.0	335	1	11330	339	1	12208	408
943293	3	8	16182	3.6	589	1954	1	11250	3.6	411	1	16090	568			
						1956	2	15925	3.4	544	2	16540	672	2	15849	578
						1957	2	15365	3.3	498				1	16372	572
						1958	1	18730	3.5	648	1	16060	530	1	15031	516
						1959	2	15840	3.8	601	2	13485	482	2	13494	506
943749	22	43	13042	3.6	463	1954	4	10828	3.6	386	4	12245	428			
						1955	6	11512	3.7	419	6	11505	406	6	10588	368
						1956	11	13619	3.4	468	11	12578	461	7	11959	437
						1957	9	12509	3.6	459	9	12934	473	8	12810	471
						1958	8	14535	3.5	513	5	13924	498	5	13662	494
						1959	4	15570	3.6	559	4	13938	512	4	14331	531
						1960	1	12950	3.7	479	1	14150	500	1	13571	482
943799	1	2	13280	3.7	492	1957	1	14800	3.7	550	1	14450	595	1	13854	486
						1958	1	11760	3.7	434						
944770	4	6	12671	3.3	409	1955	2	14200	3.6	418	2	10705	371	2	11532	379
						1956	2	11085	3.6	395	2	13300	446	2	12241	426
						1957	1	8700	4.3	372	1	11880	417	1	14421	485
						1958	1	11480	4.3	494	1	13740	467	1	13015	439
944849	1	1	7470	3.6	266	1958	1	7470	3.6	266	1	11690	411			
946132	1	1	10080	3.6	367	1954	1	10080	3.6	367	1	11310	419			
946406	1	2	14240	3.7	525	1958	1	13830	3.8	527	1	12510	472	1	11412	422
						1960	1	14650	3.6	523				1	13320	506
948425	1	5	17110	3.5	606	1954	1	19970	3.6	712	1	13490	483			
						1955	2	16145	3.7	591	2	13905	508	2	15642	550
						1956	1	17970	3.4	613	1	15260	548	1	14704	510
						1957	1	15320	3.4	525	1	15930	578	1	16644	586
949037	49	103	12532	3.7	456	1953	2	13465	3.9	518	1	12540	466	2	11227	437
						1954	19	11948	3.7	437	18	12383	440	5	12568	455
						1955	20	13551	3.6	488	20	12592	458	14	12853	463
						1956	23	12577	3.6	450	23	12921	468	18	12099	448
						1957	23	12787	3.6	464	22	12528	461	17	12305	447
						1958	11	13517	3.6	480	6	13438	484	7	12720	457
						1959	5	13716	3.5	478	5	11952	433	4	13620	484
949041	2	3	9748	3.6	347	1949	1	11460	3.8	433						
						1950	1	10510	3.6	376						
						1951	1	8510	3.4	288						
949156	1	4	14608	3.8	549	1954	1	15350	3.5	538	1	14640	528			
						1955	1	14450	3.8	543	1	12930	453	1	9091	398
						1956	1	14880	4.0	591	1	13680	536	1	13200	528
						1958	1	13750	3.8	523	1	13080	475	1	12818	465
949159	6	10	12522	3.5	432	1957	2	9960	3.7	377	2	6575	253	2	13702	489
						1958	6	14832	3.5	520	5	15038	532	5	12086	549
						1959	1	9360	3.2	304	1	15110	528	1	14508	505
						1960	1	16860	3.2	544	1	14610	484	1	17462	610
949284	165	247	12399	3.7	461	1954	15	12401	3.7	464	15	11885	434	7	12322	436
						1955	36	12662	3.8	475	35	12727	454	26	11591	431
						1956	56	12504	3.7	465	54	13020	466	43	12079	440
						1957	50	12049	3.8	448	47	12396	454	36	12011	445
						1958	42	12557	3.7	466	29	13067	472	28	11924	462
						1959	45	12936	3.7	475	42	12646	457	38	11542	443
						1960	3	10463	3.5	370	3	11053	393	3	11474	414
950295	3	5	12789	3.5	448	1954	1	12690	3.4	432	1	11210	414			
						1955	2	12800	3.5	445	2	9670	350	2	9462	352
						1956	1	13630	3.5	480	1	11360	406	1	12023	443



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	MILK LB.	FAT LB.	
						1959	HOLSTEIN	1	11960	3.7	448	1	12000	438	1	13429	483
950648	2	6	13702	3.4	460	1952	1	10430	3.2	335	1	17160	554				
						1953	1	11630	3.7	432	1	12900	465		1	16950	590
						1955	1	17550	3.1	548	1	14170	479		1	9091	398
						1956	2	13980	3.3	463	2	12055	477		2	13435	510
						1957	1	14640	3.5	516	1	13050	470		1	13854	486
950707	2	3	14410	3.6	513	1957	1	14770	3.3	486	1	15080	566		1	12688	433
						1958	1	16110	3.5	559							
						1959	1	13380	3.8	503	1	11750	433				
951104	9	12	9684	3.9	375	1952	1	9930	3.8	379							
						1953	2	9805	3.9	385							
						1954	6	9553	3.9	366	1	13780	494				
						1955	2	9380	4.0	381	1	14620	532				
						1956	1	13400	3.8	512	1	15680	566		1	15642	550
															1	14704	510
952029	9	16	14171	3.7	514	1956	3	14960	3.7	544	3	14473	522		3	12045	414
						1957	4	11805	3.6	419	4	13515	485		3	12502	445
						1950	4	14335	3.9	557	3	15703	576		3	14537	509
						1959	4	16390	3.6	579	3	15093	531		4	11097	499
						1960	1	13490	3.2	432	1	11890	439		1	13494	482
952576	30	70	12831	3.5	452	1952	3	13993	3.5	492	1	13270	422				
						1953	14	12119	3.6	428	13	11778	416				
						1954	15	12327	3.6	441	15	11979	425		9	11070	394
						1955	15	12813	3.5	444	15	12606	450		6	12455	437
						1956	9	13523	3.6	484	9	12933	476		7	11892	430
						1957	7	12914	3.6	456	6	14188	523		8	12520	453
						1958	4	14288	3.4	482	4	13815	494		3	12953	468
						1959	2	12400	3.8	466	2	14320	536		3	14980	544
						1960	1	15470	3.4	520	1	13540	493		2	14296	531
															1	14137	502
952603	3	6	10988	3.8	422	1955	1	16170	4.2	687	1	14230	521				
						1956	1	10950	3.7	406	1	12120	422		1	13669	492
						1957	2	11725	3.7	430	2	10220	352		2	12094	423
						1958	2	10050	3.8	381	2	12950	452		2	13233	476
954213	31	72	11601	3.6	410	1952	2	11875	3.6	427							
						1953	9	13544	3.6	479	2	12670	436		1	11728	403
						1954	20	11872	3.5	416	12	12984	468		6	14186	511
						1955	16	11925	3.5	417	8	13006	467		8	12418	448
						1956	11	12053	3.6	437	7	12774	474		6	13185	466
						1957	8	12709	3.5	440	5	13464	486		5	12821	464
						1958	5	15194	3.5	528	4	14093	497		4	13966	483
						1959	1	17470	3.2	556	1	14730	505		1	15151	523
954675	1	2	11990	4.0	477	1958	1	12260	3.8	470	1	14340	518		1	12513	485
						1959	1	11720	4.1	484	1	15310	600		1	14453	565
955493	27	43	12420	3.7	454	1954	1	14060	3.5	491	1	11720	438		1	11576	435
						1955	3	13663	3.6	494	3	13290	472		3	10962	407
						1956	7	12920	3.8	497	7	13451	478		7	13342	487
						1957	11	12682	3.8	473	8	13518	483		8	12979	466
						1958	13	12103	3.7	446	10	14025	506		10	12544	498
						1959	7	14223	3.7	523	7	13247	490		7	13485	501
						1960	1	11700	3.6	419	1	11400	409				
955798	5	14	12006	3.6	430	1950	2	11920	3.9	454	2	8620	380				
						1951	2	12045	3.6	424	1	15080	516				
						1952	3	14533	3.7	532	3	14327	503				
						1953	3	11413	3.5	401	3	12333	421		3	13429	451
						1954	3	11787	3.4	401	3	12997	443		3	12429	440
						1955	1	9880	3.1	308	1	11770	348		1	12208	408
959158	6	11	11543	3.5	406	1951	1	12830	3.4	434	1	11150	401				
						1952	1	12890	3.4	440	1	13790	498				
						1953	4	12248	3.4	417	4	12180	401		4	10453	364
						1954	4	11895	3.4	404	4	11860	430				
						1956	1	9220	4.3	399	1	11020	445		1	11739	432
959466	6	13	14507	3.7	535	1953	1	17450	3.7	644	1	16600	609		1	13669	521
						1954	1	12000	3.7	444	1	12070	424				
						1955	1	13800	3.6	491	1	14900	531		1	14028	532
						1956	2	13460	3.6	489	2	12985	487		2	13009	488
						1957	1	14510	4.1	602	1	15270	559		1	14748	557
						1958	3	13057	3.9	503	3	14517	527		3	14333	525
						1959	4	14730	3.8	556	4	13383	475		3	13607	474
959486	1	1	12030	4.2	505	1956	1	12030	4.2	505	1						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
						1957	HOLSTEIN 1	14490	3.5	501												
964841	2	7	13214	3.9	511	1950	1	14680	3.9	583												
						1951	1	14180	3.7	522												
						1954	2	11595	4.2	482	2	13945	495									
						1955	1	12600	4.1	511	1	15150	564	1	12252	453						
						1957	1	11660	3.8	444	1	13420	468	1	15097	559						
						1958	1	12040	3.6	428	1	13890	487	1	13603	483						
967331	69	144	12632	3.6	451	1953	3	12040	3.7	443												
						1954	2	13215	3.5	458												
						1955	29	12614	3.6	451	26	11975	443	17	11565	425						
						1956	41	12397	3.6	445	38	12258	446	32	11754	425						
						1957	33	12701	3.6	457	29	12579	469	24	12655	455						
						1958	22	13398	3.5	470	18	13787	498	15	13318	515						
						1959	13	13418	3.6	478	12	13037	471	12	12406	483						
						1960	1	10640	3.8	401	1	9930	369	1	11521	426						
967873	6	9	14437	3.7	538	1957	2	14020	3.7	511	2	11095	411	2	13506	499						
						1958	1	12130	3.9	478	1	12110	485	1	13265	488						
						1959	4	15800	3.5	558	3	12740	466	4	9671	464						
						1960	2	15750	3.9	621	2	14865	601	2	13304	509						
968544	4	4	9203	3.8	341	1957	2	11010	3.7	401	2	12670	438	2	11064	394						
						1959	1	10020	3.8	377	1	12650	461	1	12034	435						
						1960	1	4770	3.9	186	1	12650	461									
968786	1	2	17350	3.8	661	1958	2	17350	3.8	661	1	13780	507									
969667	9	16	11099	4.0	442	1955	3	12520	3.9	487	2	12140	424	1	11271	412						
						1956	2	10695	3.9	415	2	12530	453	1	10867	405						
						1957	2	14550	4.3	625	2	11365	439	2	10715	412						
						1958	4	11155	4.1	454	2	12860	467	3	14003	510						
						1959	5	10694	4.2	445	5	12488	455	5	12999	488						
969669	8	13	11948	3.7	441	1954	1	13100	4.0	528	1	13900	560									
						1955	3	11593	3.9	439	3	13110	491	3	11656	425						
						1956	2	12310	3.7	450	2	12085	434	1	13701	529						
						1957	1	12900	3.6	470	1	14540	575	1	13254	474						
						1958	3	14277	3.5	505	2	15260	547	2	13179	481						
						1959	2	9560	3.8	363	2	13000	462	2	13309	480						
						1960	1	12790	4.1	527	1	13240	470	1	12851	493						
969897	21	55	12165	3.7	442	1950	1	9960	4.0	397	1	12150	422									
						1951	7	12049	4.0	485	5	11188	422									
						1952	7	12409	3.7	460	6	11615	429									
						1953	6	12167	3.7	455	6	11203	419	6	11260	429						
						1954	10	12702	3.7	469	10	11572	431	4	12404	452						
						1955	10	12370	3.8	462	9	12527	449	10	11459	426						
						1956	9	11411	3.7	412	9	12351	446	9	11507	423						
						1957	3	11913	3.6	426	3	12110	439	3	12052	434						
						1958	2	10000	3.6	357	2	13190	462	2	12600	447						
						969938	22	45	12360	3.5	425	1953	5	13148	3.7	481	5	11206	427	5	10412	390
												1954	10	12520	3.3	409	10	11774	420	6	12553	459
1955	7	12539	3.5	436	7							12163	423	5	12062	426						
1956	8	12465	3.7	454	8							12379	424	6	12246	423						
1957	8	12200	3.5	421	7							11227	396	6	12853	451						
1958	6	13013	3.4	440	5							13362	466	5	12758	438						
1959	1	9100	3.3	300	1							10590	381									
970836	3	7	12470	3.6	448	1952	2	12285	3.7	446	1	8170	285									
						1953	1	9540	3.6	345	1	8020	275	1	7227	245						
						1954	1	10830	3.8	409	1	12290	431									
						1955	2	11100	3.7	404	2	12930	472	2	13947	508						
						1956	1	18000	3.4	620	1	16920	572	1	15554	543						
972712	1	1	8570	3.6	308	1957	1	8570	3.6	308	1	10750	385									
973824	213	315	12619	3.8	473	1953	2	15140	3.5	534												
						1954	1	14080	4.0	565												
						1955	11	13033	3.7	490	8	12560	464	8	12163	445						
						1956	63	12596	3.8	474	58	13137	481	54	12109	445						
						1957	70	12131	3.8	459	67	12432	455	62	12174	443						
						1958	74	12817	3.8	484	59	13054	478	59	12033	465						
						1959	81	13098	3.7	487	65	12984	468	73	11298	485						
						1960	13	12908	3.7	477	13	13046	477	13	13254	483						
						974041	19	51	11757	3.6	418	1950	2	8955	3.4	298	1	9910	340			
1951	3	9447	3.9	367	2							11325	409									
1952	6	12217	3.5	430	2							13285	460									
1953	13	11928	3.6	431	13							12215	427	11	12292	434						
1954	7	11911	3.6	422	6							12302	435	4	12598	432						
1955	9	13093	3.6	463	8							12915	430	7	11792	411						
1956	5	11638	3.5	408	5							11984	401	5	11792	400						
1957	2	9620	3.6	347	2							12025	417	2	12421	422						
1958	1	7700	3.6	280																		
1959	3	13157	3.6	478	2							12570	448									
974970	7	13	9859	3.7	356							1952	1	9850	3.1	310	1	11130	389			
						1953	4	10270	3.7	361	4	11243	394	2	8977	332						
						1954	2	8380	4.0	334	2	10065	359	1	8775	335						
						1955	3	10683	3.8	404	3	11497	429									
						1956	1	7470	3.9	290				1	8982	388						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
975137	6	11	11490	3.7	416	1957	1	8290	3.7	310	1	11340	419	1	8905	347
						1958	1	8160	3.7	305						
						1956	1	9700	3.7	362	1	10220	322			
						1957	1	3900	3.9	151				1	10093	378
						1958	4	11640	3.6	423	3	13507	479			
975683	8	14	11850	4.0	472	1959	5	15608	3.6	564	3	13860	521			
						1955	1	9260	3.7	344	1	9180	318	1	10595	370
						1956	1	9720	4.3	420	1	11330	405	1	10867	405
						1957	1	12300	4.3	524	1	13250	502	1	10715	412
						1958	4	11648	4.2	487	3	11473	440	1	11968	462
975892	2	3	10425	3.5	366	1959	6	13437	4.0	540	6	12665	465	6	13453	501
						1960	1	15760	3.6	566	1	12710	478	1	10671	405
						1958	1	17010	3.4	586						
						1959	2	7485	3.5	263	2	11080	395	1	13538	498
						1960	1	13840	3.9	535	1	12940	478			
976710	1	1	13840	3.9	535	1958	2	11640	3.8	437	1	13250	494	2	7396	485
						1959	1	14876	3.8	572	1	10860	390	1	11783	426
977102	1	3	12717	3.8	482	1952	1	13960	3.3	464	1	16080	539			
977103	1	1	13960	3.3	464	1955	3	10270	3.5	362	3	13003	465	3	12535	445
						1956	7	11363	3.7	424	7	11963	457	5	12764	470
						1957	6	10872	3.6	398	6	12537	450	6	12075	432
						1958	4	14438	3.7	530	4	14675	537	3	14570	542
						1959	2	12845	3.2	411	2	13420	473	2	13080	451
979087	1	2	12325	3.2	382	1957	1	14880	3.0	443						
						1958	1	9770	3.3	321						
981308	5	7	13498	3.7	500	1957	2	11640	3.5	399	2	12060	401	2	12688	451
						1958	4	14005	3.8	524	2	13730	485			
						1959	1	16200	4.0	656	1	15890	572			
981361	1	2	18550	3.5	635	1958	1	18170	3.4	612	1	14200	515	1	12513	485
						1959	1	18930	3.5	658	1	15010	593	1	14889	580
981711	70	111	12382	3.6	443	1951	1	14860	4.0	587						
						1952	2	10830	3.9	423						
						1953	2	10415	4.0	416						
						1954	5	11138	3.7	419	2	10780	424	1	14966	569
						1955	12	11802	3.5	411	10	14119	476	8	11573	406
						1956	26	13515	3.6	491	22	14205	503	21	12893	447
						1957	33	12058	3.6	431	32	13348	472	26	13352	470
						1958	22	13396	3.5	473	14	13997	485	18	13002	483
						1959	8	13760	3.4	458	8	13919	493	7	14058	496
						1954	3	10090	3.3	332	3	9383	384	2	11140	401
						1955	7	9703	3.5	339	5	10944	408	6	10758	395
						1956	7	11219	3.8	422	7	11976	436	7	11272	409
982292	13	26	10523	3.7	383	1957	2	12680	3.7	468	2	12280	473	2	11772	463
						1958	4	11765	3.6	426	2	13545	482	3	13662	485
						1959	3	12857	3.5	449	2	13565	520			
						1953	1	12510	4.1	519						
						1954	1	13460	3.8	506						
983075	7	12	14000	3.6	501	1955	1	14620	3.4	502	1	13330	484	1	10420	393
						1956	3	13830	3.7	510	2	13290	462	1	10192	364
						1957	3	13960	3.5	489	2	13070	445	2	12486	450
						1958	1	16570	3.6	592	1	15300	539	1	14998	526
						1959	2	13780	3.4	466	2	10030	368	2	11015	398
984717	18	25	12439	3.8	464	1955	4	12578	3.9	495	3	11130	396	3	12044	432
						1956	12	11718	3.8	447	10	12110	436	10	12244	435
						1957	5	11928	3.6	432	4	12583	443	5	11931	423
						1958	1	10970	4.4	479	1	14860	525	1	14039	505
						1959	3	14447	3.9	544	2	14810	544	3	15474	581
984796	1	1	14600	3.9	576	1957	1	14600	3.9	576	1	16000	573	1	16644	586
984799	5	6	11038	3.9	428	1957	1	9560	3.9	372	1	12720	483	1	11772	446
						1958	4	10200	3.9	393	3	12797	467	3	13265	488
						1959	1	14540	4.0	581	1	11020	390	1	11783	426
984801	4	13	14945	3.6	532	1952	2	12795	3.7	472	2	13320	472			
						1953	2	15105	3.5	522	2	13900	514	2	13015	469
						1954	2	15050	3.8	561	2	13100	513	2	14159	524
						1955	1	15120	3.7	560	1	12740	509	1	13353	507
						1956	3	15747	3.7	579	3	14190	535	3	13894	527
						1957	1	15050	3.6	540						
						1958	1	16370	3.0	486	1	15190	545	1	13592	496
						1959	1	13160	3.5	465	1	14470	541	1	14235	510
984803	3	4	11972	3.8	455	1956	1	15810	3.4	545	1	12430	447			
						1957	1	9930	3.9	387						
						1958	1	10820	3.4	363	1	11690	441	1	11521	416
						1959	1	12670	4.1	524	1	11370	409	1	9930	344
985717	21	32	12399	3.4	414	1955	2	14395	3.3	470	2	12805	446	1	11314	373
						1956	9	12679	3.4	428	9	12469	447	9	11093	391

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUP 10 BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP. AV. YEARLY HERO AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	
						HOLSTEIN											
						1957	9	13574	3.4	454	9	13566	477	9	12637	451	
						1958	7	14373	3.0	432	7	12180	420	7	11907	423	
						1959	3	10120	3.1	309	2	11395	405	1	9581	343	
						1960	2	14265	3.3	468	2	15685	584	1	11696	397	
986239	1	1	9720	3.9	381	1959	1	9720	3.9	381	1	13250	472	1	12502	456	
987497	177	250	12918	3.6	463	1954	1	10320	4.2	433							
						1955	3	9933	3.8	376							
						1956	17	12418	3.6	441	15	12738	465	12	12178	441	
						1957	48	11939	3.6	435	47	12134	450	40	12121	444	
						1958	79	13634	3.6	493	65	13557	488	58	12263	475	
						1959	89	13348	3.6	473	75	12859	467	86	11480	476	
						1960	13	13564	3.5	466	13	12931	462	11	13639	462	
988944	2	2	5755	3.5	204	1952	2	5755	3.5	204							
988993	1	3	15167	3.6	546	1958	2	14450	3.4	497	1	14960	546				
						1959	1	16600	3.9	644	1	15110	593	1	14889	580	
989718	39	68	12420	3.5	432	1950	3	15263	3.5	533							
						1951	4	11965	3.6	417							
						1952	3	11890	3.6	422							
						1953	2	13695	3.6	483	1	11680	424				
						1954	3	12290	3.4	416	2	10755	387	2	12415	449	
						1955	13	13400	3.4	460	13	12110	428	10	11485	413	
						1956	17	12098	3.6	427	17	13075	454	15	12149	428	
						1957	9	11693	3.5	404	9	12579	443	9	13790	474	
						1958	10	12848	3.4	439	10	13075	454	10	12809	444	
						1959	4	12190	3.4	408	4	13883	455	3	14407	506	
990952	20	23	11919	3.5	415	1957	8	13371	3.5	464	8	13534	464	7	12236	432	
						1958	9	13040	3.4	441	4	14170	496	5	11375	486	
						1959	5	9382	3.6	338	5	11652	429	3	13276	469	
						1960	1	6980	4.4	311				1	13930	469	
991803	1	2	18685	3.6	669	1955	1	17670	3.4	596	1	11730	448	1	10998	431	
						1956	1	19700	3.8	741	1	15520	613	1	12873	475	
992848	1	1	13230	4.0	524	1955	1	13230	4.0	524	1	12810	478	1	10322	393	
993764	1	1	9830	3.6	356	1959	1	9830	3.6	356	1	12810	491	1	12622	469	
993889	12	16	13140	3.6	475	1956	1	16310	3.1	507							
						1957	5	13770	3.6	499	3	12153	500	3	12045	501	
						1958	6	12750	3.5	449	6	13288	475	6	12675	460	
						1959	4	11823	3.9	457	3	12857	461	4	9399	425	
994415	6	7	12019	3.5	413	1954	4	12578	3.5	432	4	12240	441	4	11794	434	
						1955	1	14430	3.6	525	1	15980	544	1	15293	553	
						1956	1	10890	3.5	383	1	13340	459	1	13701	463	
						1957	1	10110	3.4	348							
995123	258	476	12535	3.8	470	1950	2	13400	3.9	513							
						1951	2	11940	3.9	463							
						1952	3	13200	3.6	478							
						1953	6	13292	3.6	477	1	14320	483	1	11936	412	
						1954	40	13376	3.7	498	36	13217	472	12	12368	442	
						1955	86	12683	3.7	470	82	12523	449	59	12202	437	
						1956	95	12310	3.8	467	90	12946	464	73	12436	455	
						1957	97	12641	3.8	478	95	13009	475	81	12560	460	
						1958	82	13188	3.8	496	62	13266	483	57	12142	466	
						1959	56	13271	3.7	495	49	13168	485	52	11768	485	
						1960	7	13819	3.7	506	7	12636	459	3	13182	462	
997481	4	5	10888	3.6	390	1958	1	12190	3.5	426	1	12330	451	1	10671	420	
						1959	4	9808	3.5	346	3	12977	469	4	10750	511	
998848	89	148	13121	3.5	454	1953	7	13133	3.4	454	6	12025	445	7	12049	433	
						1954	15	12631	3.4	438	11	12082	434	7	12127	422	
						1955	28	12568	3.4	432	28	11787	425	23	11310	409	
						1956	27	13394	3.6	486	25	12603	464	20	11903	437	
						1957	25	13052	3.5	455	21	12204	447	18	12100	445	
						1958	28	12860	3.5	445	23	13040	479	17	11688	429	
						1959	18	14941	3.5	518	17	13511	491	17	12118	475	
999636	1	5	11910	3.3	389	1953	1	11530	3.3	385	1	8240	378	1	7608	314	
						1955	1	14020	3.4	474	1	10420	405	1	8960	378	
						1956	1	10270	3.4	345	1	7110	294	1	9385	390	
						1957	1	11500	3.1	362	1	8810	354	1	10061	407	
						1958	1	12230	3.1	378							
1000390	23	38	14134	3.8	539	1956	5	13252	3.9	517	5	13948	489	3	12495	455	
						1957	9	13893	3.8	528	9	12937	463	8	12523	462	
						1958	8	15354	3.7	563	6	14160	502	6	13311	471	
						1959	15	12689	3.8	490	13	12644	475	12	10659	456	
						1960	1	17780	4.5	770	1	13510	485	1	13156	508	
1000392	5	6	12373	4.0	484	1953	4	12853	4.0	500							
						1954	2	10915	3.9	421							
1001512	7	14	10300	4.1	419	1956	1	10110	3.5	352							
						1957	3	12103	3.9	475	1	12160	408	1	13701	470	



TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	HERO MILK LB.	AVLAGE FAT LB.
HOLSTEIN																
						1950	5	11136	3.9	442	3	12017	441	4	9541	422
						1959	5	8744	4.3	376	3	8450	314	5	7565	335
1001812	1	1	8680	3.3	285	1954	1	8680	3.3	285	1	12650	493	1	11129	402
1002143	1	3	10813	3.8	412	1956	2	10825	3.6	406	2	11190	409	2	10540	375
						1957	1	10790	3.9	419	1	9510	353	1	9963	366
1003598	9	17	11338	3.8	426	1954	1	14270	3.4	482	1	12930	509			
						1955	3	12643	3.6	462	3	13333	479	3	11888	431
						1956	2	10125	3.6	358	2	12065	416	1	11772	410
						1957	4	9983	4.1	398	4	11473	441	3	11699	427
						1958	5	11862	3.7	440	4	11763	437	4	9494	427
						1959	2	11110	4.1	449	1	10650	417	2	10132	393
1003960	1	1	13580	3.5	480	1959	1	13580	3.5	480	1	9950	355			
1003963	6	16	12002	3.7	441	1952	2	9385	3.7	347	1	8600	337			
						1953	3	11097	3.8	423	3	9460	342	3	9127	320
						1954	4	13275	3.5	462	3	11327	410	3	11224	409
						1955	1	12260	3.8	462	1	10950	408	1	11903	445
						1956	2	12875	3.4	436	2	12895	457	2	13773	509
						1957	3	12450	3.6	446	3	11477	430	2	12709	467
						1958	1	14160	3.7	519	1	14690	530			
1004137	1	2	16495	3.4	558	1958	1	18900	3.3	628	1	13810	524	1	12786	498
						1960	1	14090	3.5	487	1	12140	457	1	11718	452
1004144	1	3	10830	3.6	389	1955	1	10290	3.6	371	1	10120	366	1	11652	413
						1956	1	11410	3.5	403	1	10820	387	1	10431	379
						1958	1	10790	3.6	393	1	11470	432	1	11772	436
1004232	8	14	12889	3.8	487	1958	5	12796	4.0	511	3	12823	485			
						1959	6	12730	3.8	480	6	12812	485	6	12624	477
						1960	3	11403	3.6	403	3	12707	475	2	12829	484
1004496	1	1	12280	4.1	507	1959	1	12280	4.1	507	1	12300	455	1	14377	530
1004966	3	4	12465	3.3	411	1957	1	10230	3.6	369	1	13590	468	1	12415	437
						1958	2	11025	3.6	404	2	14175	502	2	12176	429
						1959	1	16180	2.9	476	1	11450	398			
1005212	1	2	11060	3.4	380	1954	1	9770	3.2	315	1	12560	482			
						1956	1	12350	3.6	444	1	11910	452	1	13189	541
1005253	2	2	10920	3.6	393	1956	2	10920	3.6	393	2	12055	485	1	11598	461
1005575	13	18	12878	3.7	475	1955	1	11380	3.7	423	1	12450	470	1	11216	399
						1956	3	15337	3.4	521	3	12540	461	1	13265	491
						1957	6	13410	3.7	491	3	13020	508	5	11883	444
						1958	3	11260	3.6	405	1	13210	495			
						1959	4	14285	3.9	556	3	12787	476	4	9900	483
						1960	1	9980	3.7	367	1	12460	469			
1006142	1	4	15650	3.4	517	1958	2	15160	3.4	508	1	13470	457			
						1959	2	16140	3.3	526	1	12860	447	2	12884	452
1006529	16	37	13581	3.5	476	1953	5	14694	3.5	511	4	13588	479	5	12082	435
						1954	10	14161	3.5	493	8	13536	476	8	12665	459
						1955	11	13741	3.5	477	11	13259	466	8	12317	442
						1956	5	12582	3.6	453	5	12430	459	5	12435	429
						1957	4	10865	3.5	381	3	9837	363	3	11667	408
						1959	2	13110	3.4	445	2	13375	479	2	11947	429
1008622	1	1	12930	3.4	444	1957	1	12930	3.4	444	1	13080	490	1	9570	348
1009128	40	55	13185	3.8	499	1952	3	16020	3.6	574						
						1953	9	14751	3.6	531						
						1954	14	13472	3.8	505						
						1956	1	17020	3.6	619						
						1957	2	11700	3.8	438						
						1958	5	12880	4.0	515	4	12853	482	1	12448	488
						1959	17	13641	3.8	513	14	12415	459	15	10578	449
						1960	4	10808	3.8	412	2	12410	472	3	11750	427
1009468	68	148	14135	3.4	485	1953	5	14992	3.4	503	4	12408	475	3	11674	413
						1954	10	13051	3.4	445	10	12593	443	4	12020	449
						1955	21	14287	3.5	499	20	13635	480	14	12216	444
						1956	36	14693	3.5	515	36	13568	479	31	12532	443
						1957	29	14099	3.5	499	28	13682	480	26	13569	481
						1958	29	13798	3.4	469	22	13706	476	22	13368	478
						1959	15	13931	3.4	471	13	14545	498	13	14153	439
						1960	3	14350	3.1	453	3	12230	433	3	13691	472
1010660	11	16	15278	3.7	555	1955	1	14290	4.4	624	1	14420	526	1	15642	550
						1956	3	16753	3.3	550	3	15217	545	3	14057	490
						1957	4	14703	3.7	533	3	12753	455	2	14246	505
						1958	5	13964	3.7	507	4	13765	514			
						1959	3	16957	3.9	666	2	15120	546			
1012593	2	6	13237	3.6	473	1958	2	16970	3.6	605	1	13030	484			
						1959	2	11620	3.9	447	1	12560	478			
						1960	2	11120	3.3	367	2	11190	402	2	11641	420
1013415	5	5	11720	3.9	455	1959	5	11720	3.9	455	5	13600	518	2	14890	557
1013717	5	10	9895	3.6	358	1954	4	9178	3.6	333	4	10725	393			



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1955	3	8327	3.5	302	3	8400	294	3	9003	325
						1956	2	6615	3.5	231	2	4675	166	2	5210	193
						1958	1	12220	3.6	446	1	12220	451	1	11303	402
1013718	3	3	15357	3.9	604	1959	3	15357	3.9	604	3	13737	518	1	11674	452
1014925	1	4	13663	3.6	492	1956	1	13660	3.5	480	1	12220	450			
						1957	1	14090	3.5	489	1	11520	438	1	12012	451
						1958	1	14770	3.7	551						
						1959	1	12150	3.7	449	1	13950	532	1	11870	439
1016212	1	1	11710	3.4	403	1956	1	11710	3.4	403	1	9160	323	1	9112	323
1018213	14	38	14193	3.5	498	1953	3	13233	3.5	460	3	14573	511	3	14312	505
						1954	5	13926	3.5	483	5	14844	514	5	14355	514
						1955	3	13443	3.4	462	3	15320	536	3	14955	523
						1956	7	14263	3.5	497	7	15697	551	7	14399	500
						1957	11	14311	3.6	511	11	14723	536	11	14137	499
						1958	6	14642	3.5	526	5	13554	494	5	14824	530
						1959	3	13827	3.6	503	2	12730	477			
1019538	242	366	13795	3.9	531	1955	9	12928	3.9	505	8	13595	478	5	12790	455
						1956	58	13859	3.8	530	55	13156	474	44	12556	448
						1957	77	13729	3.9	533	72	13190	476	62	12863	466
						1958	109	13891	3.9	538	90	13352	490	82	12317	485
						1959	92	14301	3.9	549	80	13294	483	86	11716	485
						1960	21	14068	3.9	548	20	13181	481	18	13446	490
1020277	3	3	10133	3.8	384	1957	2	10830	3.8	406	1	13140	490	1	9570	348
						1958	1	8740	3.9	342	1	15230	600	1	11783	445
1021571	18	23	12206	3.6	440	1956	9	12499	3.7	459	9	13050	479	8	11474	415
						1957	11	11644	3.6	417	10	12335	449	8	12163	444
						1958	2	13955	3.4	475	2	11840	471	2	11336	430
						1959	1	9420	4.1	383	1	11410	394	1	12034	435
1022095	1	2	10450	4.2	435	1959	2	10450	4.2	435	1	9560	336			
1023039	1	1	10770	2.9	315	1959	1	10770	2.9	315	1	11430	369	1	9963	340
1023059	2	8	14228	3.3	476	1954	1	16810	3.2	543	1	15380	543			
						1955	1	15830	3.6	565	1	15380	543	1	12186	451
						1956	2	14245	3.5	491	2	14005	500	2	12764	462
						1957	2	12745	3.2	412	2	12210	444	2	13026	479
						1958	2	13600	3.3	447	2	11010	405	2	13527	486
1024453	2	3	16743	3.4	565	1957	1	13510	3.5	469						
						1958	2	17010	3.3	564						
1024956	14	32	15101	3.3	492	1953	3	14387	3.3	475						
						1954	6	15142	3.3	498						
						1955	5	12690	3.4	436	1	11780	425	1	8927	315
						1956	8	14869	3.4	499	3	14627	524	3	14090	488
						1957	4	14475	3.4	484	1	17090	598	1	16012	552
						1958	5	16466	3.2	520	1	14560	512	1	15009	517
						1959	1	18790	2.9	541	1	15320	529	1	15053	510
1025361	1	4	8918	3.6	316	1954	1	10270	3.5	359	1	11130	437			
						1955	1	8720	3.6	316	1	11240	407			
						1956	1	10240	3.4	347	1	10730	389			
						1957	1	6440	3.7	240	1	9710	343			
1025570	118	199	12894	3.7	475	1955	7	13601	3.6	497	7	13097	457	5	11650	422
						1956	29	12364	3.7	454	27	12414	458	27	12093	435
						1957	43	12773	3.7	473	41	12760	468	39	12159	445
						1958	57	13027	3.7	483	41	13066	470	38	10724	473
						1959	52	13966	3.7	515	44	13374	482	51	11620	459
						1960	11	13996	3.7	520	10	12506	460	9	13247	489
1026115	4	4	13180	4.0	527	1958	2	14455	3.9	570						
						1959	2	11905	4.1	484	2	12100	503			
1026806	1	1	11320	3.3	377	1956	1	11320	3.3	377	1	12690	590			
1029659	2	3	11738	3.8	442	1958	2	11950	3.7	445	2	14410	521	2	12513	443
						1959	1	12270	4.0	488	1	15120	595	1	13233	507
1030195	1	1	11330	3.9	444	1956	1	11330	3.9	444	1	15750	568	1	14704	510
1030404	2	2	14240	3.7	520	1959	2	14240	3.7	520	1	9080	364	1	13047	453
1030848	1	1	14180	3.2	459	1953	1	14180	3.2	459	1	10060	350	1	5134	194
1032617	1	1	16920	2.9	498	1960	1	16920	2.9	498	1	11330	439	1	14780	555
1032776	2	2	10380	3.5	367	1959	2	10380	3.5	367	2	9995	351	2	11064	396
1033032	16	25	15055	4.0	597	1955	2	16415	4.0	650						
						1956	4	16328	4.1	673						
						1957	5	15362	3.9	594	2	12620	436	1	12535	472
						1958	6	13076	3.8	492	4	12888	490	5	10287	461
						1959	6	15765	4.0	636	5	13704	524	5	11000	520
						1960	2	13945	3.9	524	2	13495	536	2	12197	468

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
1035305	70	122	12933	3.7	472	1954	1	12100	3.8	455							
						1955	5	13250	3.5	464							
						1956	27	12963	3.7	480	3	12907	471	3	11659	426	
						1957	34	12951	3.7	472	25	12303	446	19	11831	423	
						1958	24	13458	3.7	497	31	12605	458	19	12373	445	
						1959	27	12732	3.6	462	22	12570	454	15	12186	448	
						1959	4	13635	3.5	477	26	12322	447	24	11710	443	
						1960					4	12440	429	4	12064	440	
1035454	8	8	15284	3.6	558	1959	8	15284	3.6	558	8	13118	493	7	12577	460	
1035507	6	9	15394	3.6	557	1958	6	14025	3.7	516	3	16167	590	4	12162	571	
						1959	3	16227	3.6	579	3	15260	582	2	15816	579	
1035691	3	4	11732	4.0	475	1953	1	10180	3.9	394	1	12950	471	1	9734	349	
						1954	2	12750	4.2	533	2	15035	571	1	14519	552	
						1955	1	12770	4.3	548	1	13590	537	1	14126	562	
1037622	15	26	12626	3.6	452	1955	8	12481	3.5	434	8	13036	476	8	11955	425	
						1956	6	13468	3.5	473	6	12965	478	4	12865	465	
						1957	5	12419	3.5	439	4	11533	407	3	11307	409	
						1958	4	12795	3.8	480	4	13630	494	3	13011	484	
						1959	3	12707	3.5	445	2	14070	498	3	9814	494	
1038509	1	1	17850	3.7	652	1957	1	17850	3.7	652							
1038986	7	8	13358	3.6	480	1958	2	10985	3.9	412	2	13370	479	2	13347	469	
						1959	6	14543	3.6	514	6	13855	475	5	14563	511	
1041824	8	19	12587	3.6	447	1954	1	11130	3.5	386	1	12220	425				
						1955	4	12860	3.5	447	4	11815	396				
						1956	1	15620	3.5	550	1	12130	425	4	10693	389	
						1957	3	12797	3.7	478	3	13253	488	1	11249	390	
						1958	4	12600	3.6	453	3	13253	488	2	11794	427	
						1959	4	12373	3.7	460	4	12038	445	4	12816	460	
						1959	4	12373	3.7	460	4	12910	478	4	12486	463	
						1960	2	11805	3.5	402	2	12660	469				
1041898	10	14	12266	3.5	427	1957	4	11593	3.6	418	4	12770	445	4	12987	464	
						1958	5	12760	3.5	444	3	14853	543	2	13206	515	
						1959	5	12484	3.4	428	3	13693	488	4	10028	437	
1043101	65	141	12209	3.7	443	1952	1	13510	3.6	488							
						1953	3	13747	3.7	515							
						1954	14	12307	3.7	453	12	11594	425	2	10753	377	
						1955	31	12128	3.7	441	30	12617	461	23	12252	448	
						1956	34	12445	3.7	453	34	12338	447	29	12069	430	
						1957	26	11368	3.7	415	23	12536	454	20	12517	455	
						1958	20	12474	3.5	440	16	12963	468	12	13225	473	
						1959	11	14000	3.4	460	10	13266	485	9	11822	463	
						1960	1	12800	3.5	448	1	12530	440	1	13799	483	
1044435	5	9	13052	3.9	506	1955	2	10605	4.9	522	2	14780	530	2	15642	550	
						1956	1	12510	4.0	501	1	15710	566	1	14704	510	
						1957	1	12490	3.5	440	1	18180	669	1	16644	586	
						1958	3	14320	3.6	517	3	14347	511	2	13936	508	
						1959	2	13345	3.8	503	2	14120	507	2	15004	542	
1046466	1	2	13945	3.7	510	1959	1	13610	3.6	488	1	13210	498				
						1960	1	14280	3.7	531	1	11120	410	1	12077	448	
1048340	1	2	15395	3.7	563	1959	1	16310	3.6	583	1	14900	543	1	13571	501	
						1960	1	14480	3.7	543	1	15200	597	1	14889	580	
1048545	2	2	15070	3.7	555	1959	2	15070	3.7	555	2	14200	495	2	14203	465	
1051232	1	1	9180	3.6	329	1958	1	9180	3.6	329	1	14410	522	1	12513	485	
1051847	2	2	10330	3.7	378	1957	1	10280	3.7	375							
						1958	1	10380	3.7	381	1	11220	406	1	11761	432	
1051867	34	45	13505	3.6	488	1955	2	13285	3.7	467							
						1956	8	14146	3.5	497	2	11120	412	2	9788	382	
						1957	9	13509	3.7	488	7	12621	474	6	12779	456	
						1958	11	13059	3.7	483	8	12501	474	6	12435	465	
						1959	12	12989	3.5	450	10	13637	491	11	12168	492	
						1960	3	13110	3.6	469	3	13757	501	1	13418	484	
1053895	1	1	12860	4.1	523	1958	1	12860	4.1	523							
1054406	16	25	12755	3.7	468	1956	5	11776	3.7	437	4	14273	514	4	12298	437	
						1957	6	12850	3.7	476	6	13437	479	4	14099	506	
						1958	5	15396	3.6	547	4	15228	539	4	14361	517	
						1959	8	11270	3.7	417	7	12657	471	7	11422	477	
						1960	1	18020	3.6	644	1	14900	543	1	16568	613	
1054495	2	7	11638	3.7	429	1953	1	9910	5.0	491	1	13100	486	1	15849	564	
						1954	2	12015	3.6	426	2	12495	464	1	11772	461	
						1955	2	11470	3.7	430	2	12070	445	2	13729	503	
						1956	1	12610	3.8	485	1	15710	567	1	14704	510	
						1957	1	12700	3.7	471	1	15200	548	1	16644	586	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
1055021	1	2	14730	3.6	526	1954	1	13140	3.3	431	1	14760	526			
						1955	1	16320	3.8	621	1	13670	520	1	10584	379
1055483	2	3	10705	4.1	428	1956	1	11680	3.5	403	1	11070	412	1	10867	405
						1957	2	10475	4.1	425	2	10520	418	1	10715	412
1056438	1	2	13285	4.4	577	1958	1	12240	4.4	540	1	12220	442	1	11303	402
						1959	1	14330	4.3	614	1	11200	413	1	14639	536
1056882	45	73	13473	3.7	494	1955	3	12153	4.1	505	1	13300	421	1	12132	402
						1956	8	11715	3.8	444	8	13073	476	6	12192	454
						1957	15	12042	3.5	431	13	12043	443	10	10927	395
						1958	18	14089	3.7	509	14	13381	492	14	12309	482
						1959	25	14879	3.6	534	20	13117	478	25	10728	482
						1960	4	13300	3.7	497	3	11907	443	3	13269	488
1057124	41	58	13336	3.6	472	1953	4	15328	3.6	542						
						1954	4	14088	3.3	466						
						1955	3	14513	3.4	487						
						1956	2	14680	3.4	495						
						1958	15	12524	3.6	444	12	12984	475	12	13332	483
						1959	28	13387	3.5	474	25	12869	472	26	11675	479
						1960	2	14755	3.7	550	2	14520	502	2	14383	513
1057691	32	42	12102	3.6	433	1955	1	12600	3.7	470	1	11700	416	1	12502	439
						1956	6	14438	3.5	501	6	13845	502	6	12284	446
						1957	13	10991	3.6	396	13	12638	458	12	12576	452
						1958	9	13161	3.7	484	8	12896	471	6	13038	481
						1959	12	12384	3.6	446	12	13208	470	9	13233	474
						1960	1	12490	3.6	455	1	12840	486	1	13407	501
1057739	1	1	12560	4.1	509	1959	1	12560	4.1	509	1	12590	450	1	12404	450
1058092	4	4	10855	3.8	411	1959	2	11450	3.7	424	2	12975	479	2	11696	432
						1960	2	10260	3.9	398	1	12890	472	2	12170	470
1059273	49	104	12317	3.7	452	1952	2	11745	3.9	448	1	10900	396			
						1953	3	11043	3.9	431	1	10620	394	1	10802	391
						1954	15	11897	3.7	436	12	12598	450	4	13732	494
						1955	24	13153	3.7	483	21	12752	458	14	12566	450
						1956	20	13287	3.6	483	18	12863	469	15	12134	438
						1957	15	11625	3.7	426	14	12816	471	12	12210	441
						1958	11	10717	3.7	391	9	12592	446	8	11967	441
						1959	12	12486	3.5	443	10	12528	454	11	10637	480
						1960	2	11255	3.6	409	2	14685	577	2	11925	458
1059274	200	322	12349	3.7	455	1954	12	12623	3.7	473	11	12147	444	1	11162	392
						1955	43	11399	3.7	424	42	11829	432	31	11809	428
						1956	64	12514	3.6	452	62	12936	476	56	12158	444
						1957	49	11806	3.7	440	47	12542	466	42	12320	458
						1958	74	12665	3.7	471	61	13255	489	56	12399	481
						1959	72	12752	3.7	468	59	13013	482	64	10879	478
						1960	8	12393	3.7	451	8	12416	458	6	13403	485
1059628	85	141	12369	3.5	437	1954	10	11837	3.5	416	9	12104	424	6	12550	440
						1955	28	11779	3.6	429	27	11937	430	20	11555	420
						1956	41	12736	3.5	446	39	12661	455	31	11942	436
						1957	33	12387	3.6	444	32	12715	453	27	12207	445
						1958	17	12315	3.5	435	11	12398	443	8	10215	416
						1959	10	12971	3.3	430	9	12967	466	8	11776	492
						1960	2	12845	3.4	431	2	14410	516	2	13832	495
1059887	8	21	14876	3.7	545	1953	1	17010	3.8	650						
						1954	4	15310	3.7	555						
						1955	6	15307	3.6	552						
						1956	6	14400	3.6	514						
						1957	3	14337	3.7	540						
						1958	1	15160	3.6	547						
1060259	1	1	4190	3.9	164	1960	1	4190	3.9	164	1	10750	382	1	10377	402
1060752	43	62	13286	3.6	479	1956	2	12080	3.6	444						
						1957	14	12846	3.7	471	10	12869	481	9	12539	458
						1958	27	13711	3.6	490	21	12989	475	19	11827	464
						1959	15	12847	3.7	469	12	13125	483	14	11049	462
						1960	4	11400	3.4	379	4	12360	475	3	12295	443
1061147	1	1	14390	3.7	536	1959	1	14390	3.7	536	1	13290	523	1	13919	534
1061150	2	3	8290	3.6	296	1954	1	11120	3.7	415	1	9660	359			
						1956	1	6220	3.3	205	1	9830	326	1	12382	433
						1958	1	7910	3.6	282						
1061174	34	38	12360	3.7	459	1958	7	14677	3.8	567	3	13343	502	2	14023	513
						1959	26	12254	3.7	453	24	13187	481	26	13121	477
						1960	5	11836	3.6	428	3	14670	589	5	14273	535
1061894	1	1	10350	4.0	418	1960	1	10350	4.0	418	1	12110	444	1	11238	408
1063773	2	4	13902	3.3	457	1954	1	14450	3.9	561	1	14540	536			
						1955	1	15360	2.9	441	1	12810	466	1	9091	398
						1956	1	12860	3.1	402	1	13900	557	1	13200	528
						1958	1	13580	3.3	445	1	13630	517			
1064113	3	5	17324	3.2	549	1959	4	17918	3.1	559	3	13643	495	4	11603	521
						1960	1	19390	3.1	600	1	16160	583	1	15740	546
1064738	15	19	13283	3.7	482	1957	6	13157	3.7	476	6	12428	447	6	12408	440
						1958	9	13773	3.6	499	8	13414	475	8	12959	448
						1959	4	12753	3.7	468	4	11953	443	4	14494	506

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1066941	39	51	11834	3.6	425	1957	9	12664	3.6	457	7	14176	530	7	13645	495
						1958	25	12035	3.6	432	18	13061	479	14	11204	454
						1959	17	11597	3.7	424	15	12249	455	15	11525	454
1068240	27	33	13152	3.7	491	1958	10	13331	3.7	500	9	14232	513	8	12061	502
						1959	22	13245	3.8	498	22	13026	476	21	13016	478
						1960	1	14560	3.3	486	1	13980	516			
1068248	1	1	11510	3.9	447	1959	1	11510	3.9	447	1	13470	452			
1070036	20	32	15328	3.8	585	1955	2	16470	3.7	598	2	13100	467	1	9091	398
						1956	2	14705	3.9	574	2	13695	503	2	12770	511
						1957	3	14340	4.1	568	2	12905	470	2	13129	472
						1958	10	16464	3.8	618	9	13414	504	9	13654	505
						1959	13	14331	3.9	554	12	12581	460	13	11974	477
						1960	2	16250	3.7	589	2	13660	495	1	15838	557
1070850	5	8	13970	3.5	490	1958	1	14590	3.5	504						
						1959	6	13660	3.5	473	5	11976	464	6	10767	471
						1960	1	12290	3.7	458	1	12750	518	1	12241	474
1072328	7	10	11556	3.5	395	1958	3	11917	3.6	413	3	13510	495	3	11100	398
						1959	4	13455	3.4	447	3	13520	445	4	10543	471
						1960	3	9563	3.5	323	2	11795	427	3	13004	459
1073461	139	204	13550	3.7	502	1956	21	12449	3.8	475	19	13027	478	18	12173	440
						1957	33	13403	3.7	495	32	12984	475	27	12892	467
						1958	53	13994	3.8	523	41	13304	482	40	11656	462
						1959	86	13691	3.7	511	71	13057	477	80	11307	480
						1960	11	13191	3.7	491	10	12607	469	9	13779	508
1073818	2	2	9775	3.2	315	1955	1	12580	3.3	420	1	14100	455	1	13723	464
						1956	1	6970	3.0	209	1	12070	608	1	12491	465
1074864	2	2	15755	3.5	549	1959	1	15400	3.1	479	1	15010	595	1	13235	507
						1960	1	16110	3.8	618	1	13690	549	1	13625	522
1075280	3	5	17487	3.9	684	1958	2	20420	3.7	751	1	16850	642			
						1959	2	16160	4.1	655	2	13490	550	2	13576	508
						1960	1	19580	3.7	723	1	12910	543	1	14584	571
1077788	1	1	5270	4.7	244	1960	1	5270	4.7	244						
1079168	1	1	12770	3.4	434	1958	1	12770	3.4	434						
1079866	2	4	12440	3.5	434	1956	2	13855	3.5	477	2	13900	500	2	12966	458
						1957	1	12200	3.6	439	1	13410	472	1	12993	449
						1958	1	10250	3.4	344	1	12820	462	1	13908	492
1081270	2	2	11300	3.5	402	1955	1	7930	3.3	261	1	13840	458			
						1958	1	14670	3.7	543	1	17850	686	1	16514	627
1081684	3	5	12670	4.0	503	1957	1	13120	4.5	593	1	17020	601	1	11641	453
						1958	2	12475	4.2	526	2	13965	522	2	11320	474
						1959	2	13340	4.0	533	2	13000	467	1	13233	470
1083519	5	8	13575	3.6	480	1958	2	14365	3.3	493	1	13420	489	1	13091	450
						1959	5	14044	3.6	506	4	13315	465	4	10320	465
						1960	1	9670	4.0	386	1	12420	427	1	11881	426
1085240	13	31	12604	3.6	457	1954	5	13874	3.6	499	5	13258	475	3	13127	452
						1955	7	13659	3.6	495	6	11955	433	4	11170	405
						1956	4	11253	3.8	419	2	12060	450	3	12851	492
						1957	6	12928	3.7	472	6	13297	475	6	12052	454
						1958	4	13618	3.6	492	4	13770	508	4	11413	428
						1959	3	11287	3.6	408	3	10747	413	3	11500	428
						1960	2	11420	3.9	446	2	14635	558	2	12432	461
						1954	1	10200	3.7	381	1	8770	391	1	8905	406
						1955	1	10090	3.9	394	1	8600	404	1	8153	379
1085879	1	6	10053	3.7	375	1956	1	8760	3.8	329	1	7430	314	1	8894	408
						1957	1	8680	3.6	316	1	8010	342	1	8371	373
						1958	1	10670	3.5	369	1	6370	364	1	9232	399
						1959	1	11920	3.8	458	1	9370	391	1	9712	404
1087974	7	8	13804	3.7	508	1959	8	13860	3.7	514	7	13093	498	8	11382	485
1088151	1	1	10800	4.3	460	1959	1	10800	4.3	460	1	10220	402	1	11914	470
1088709	3	4	8677	4.1	536	1956	1	4310	4.3	183	1	6950	246	1	7706	267
						1957	2	10080	4.0	370	2	11520	414	1	11609	429
						1958	1	17460	3.6	637	1	14580	512	1	14584	542
1088846	1	1	13380	4.2	560	1959	1	13380	4.2	560	1	13200	503	1	14377	530
1090340	1	5	14414	3.2	460	1953	1	12000	3.2	385	1	8740	324	1	7020	263
						1954	1	14020	3.1	441	1	9370	346	1	9091	346



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE							RECORD AVERAGE BY SIRE BY FRESHENING YEAR									
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
						1956	1	15590	3.3	514	1	10100	386	1	10181	401
						1957	1	13720	3.3	447	1	10690	443	1	10126	390
						1958	1	16740	3.1	514				1	11543	459
1090978	1	1	15090	4.3	650	1958	1	15090	4.3	650	1	13980	517	1	12241	449
1090982	5	7	13095	4.0	510	1958	2	12430	4.2	520	1	14440	499			
						1959	4	15710	3.7	578	3	13907	497	4	10691	464
						1960	1	9450	4.4	412	1	13770	515	1	11510	438
1091409	1	1	16730	3.4	573	1959	1	16730	3.4	573	1	12890	464	1	13200	472
1092428	8	9	12161	3.5	425	1955	2	11105	3.7	413	2	12205	450	1	11532	379
						1956	2	12105	3.6	435	2	14290	516			
						1957	4	12365	3.5	427	4	13060	460	3	11823	400
						1958	1	14200	3.3	474	1	14160	498	1	11260	403
1092773	5	7	12455	3.6	446	1955	1	11570	3.6	420	1	9210	317			
						1956	2	10950	3.7	401	2	13605	476	1	14933	544
						1957	1	13890	3.6	499	1	16680	605	1	16775	638
						1958	2	3895	3.5	486	2	12885	494	1	16514	627
						1959	1	15890	3.4	581	1	14370	486			
1094296	1	2	10995	3.9	426	1959	1	13580	3.8	514	1	12180	457	1	12208	457
						1960	1	8410	4.0	337	1	8640	387	1	10006	423
1094305	1	1	10030	3.7	369	1960	1	10030	3.7	369	1	13160	488			
1094325	1	1	13360	3.5	473	1956	1	13360	3.5	473	1	15740	517			
1094899	1	3	17687	4.0	703	1955	1	21700	3.9	840	1	15830	526	1	14857	552
						1957	1	17460	4.0	704				1	16372	572
						1958	1	13900	4.1	565						
1094921	7	16	12565	3.9	484	1955	1	10580	3.9	415	1	11990	416	1	11870	416
						1956	2	10940	3.8	410	2	12860	455	1	12622	452
						1957	4	14098	3.8	521	4	14085	522	4	13154	478
						1958	5	14056	3.7	523	4	13905	504	4	14116	520
						1959	3	14020	4.0	553	3	15187	545	3	14355	519
						1960	1	15020	4.4	660	1	15100	524	1	14072	498
1102400	2	4	9990	3.4	337	1956	2	10645	3.5	364	1	12930	457	1	12208	464
						1957	1	15750	3.3	526						
						1958	1	13040	3.2	419						
1104657	3	6	11503	3.9	449	1955	1	10150	3.8	385	1	10990	415	1	11271	412
						1956	2	11810	4.3	504	2	12815	459	2	11870	424
						1957	2	13075	3.9	499	2	13130	487	1	13396	470
						1959	1	9050	4.0	359	1	12000	445	1	11641	440
1105369	46	81	10471	3.8	399	1955	11	12699	3.6	459	11	12804	443	9	12737	443
						1956	18	11991	3.8	453	18	13031	479	12	12398	456
						1957	12	10789	3.9	419	12	11698	434	8	11808	442
						1958	10	11082	3.9	423	7	13864	497	7	10629	442
						1959	23	10360	3.9	399	21	11267	399	23	10165	407
						1960	7	7267	4.0	285	7	10764	401	7	9943	377
1106775	5	11	13989	3.6	506	1955	1	14200	3.6	506	1	13320	453			
						1956	1	10530	3.6	375	1	13030	459			
						1957	2	13845	3.6	489	2	12555	442	1	14464	500
						1958	5	15820	3.6	570	2	15865	611	4	11513	549
						1959	1	12730	3.6	464	1	13850	490	1	13353	495
						1960	1	16850	3.8	647	1	14660	570	1	14846	581
1107500	44	53	12779	3.8	486	1958	18	12624	3.7	469	15	12948	479	13	12520	464
						1959	27	12699	3.9	492	24	12702	462	25	11135	454
						1960	8	13229	3.8	498	8	12966	470	7	13401	490
1111075	1	1	9300	3.7	341	1959	1	9300	3.7	341	1	10750	403			
1111076	8	13	14341	3.6	507	1955	1	14180	3.7	530	1	13600	479	1	14344	499
						1956	2	12360	3.8	461	2	13480	492	2	13086	451
						1957	4	14030	3.7	510	3	13660	516	1	15097	512
						1958	5	12702	3.6	450	3	14560	519	3	13847	507
						1960	1	18940	3.8	715	1	17180	599			
1113263	23	31	13294	3.6	476	1958	9	14293	3.8	535	8	14006	526	8	11772	501
						1959	21	13208	3.5	465	20	12683	463	17	12470	478
						1960	1	12770	3.8	487	1	13220	505	1	12720	489
1113278	16	23	13007	3.7	482	1955	1	11830	3.5	413				1	13723	464
						1956	2	13410	3.3	445	2	11940	450	1	8066	363
						1957	4	14280	3.8	526	3	14743	527	3	14007	497
						1958	8	13703	3.9	527	8	14473	517	7	14292	526
						1959	6	13753	3.7	506	6	13547	486	6	13320	482
						1960	2	12445	3.4	423	2	10860	387	1	11707	449
1113528	11	12	12615	3.5	439	1958	5	13558	3.3	451	5	14006	518	5	12930	473
						1959	7	12590	3.6	454	5	12792	456	4	10881	509
1116800	1	1	15010	3.3	497	1959	1	15010	3.3	497	1	14530	493	1	12960	462
1117014	7	7	12203	3.4	417	1957	2	10735	3.4	368	2	11600	383	1	11380	407
						1958	5	12790	3.4	436	4	12920	452	4	13462	466
1118704	2	2	11345	3.6	400	1957	1	12140	3.4	408	1	13410	444	1	11064	398
						1958	1	10550	3.7	392	1	14680	510	1	11260	403
1119514	5	6	13279	3.4	451	1958	3	13840	3.4	472	2	13330	543	2	13718	481



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
						1959	2	16210	3.4	545	2	13055	472	2	13435	487
						1960	1	9230	3.2	295	1	10350	377			
1120013	1	1	17360	3.5	608	1959	1	17360	3.5	608	1	13860	519	1	15184	556
1122159	1	1	10320	3.5	361	1958	1	10320	3.5	361						
1124811	13	18	13323	3.6	474	1954	5	17314	3.4	584						
						1955	1	18870	3.2	605						
						1956	1	18430	3.4	625						
						1957	4	11443	3.6	412	3	13370	478	3	13280	470
						1958	4	10900	3.6	398	2	13010	427	3	13327	452
						1959	2	14920	3.8	560	2	12935	436	2	12819	439
						1960	1	8970	4.2	377	1	12130	451			
1125395	11	13	11969	3.6	428	1958	7	13224	3.6	460	6	12195	447	4	10557	481
						1959	6	10912	3.5	388	4	11653	437	5	10076	449
1129193	11	27	13620	3.4	458	1954	4	14233	3.4	476						
						1955	11	13740	3.4	465						
						1956	7	14194	3.4	480						
						1957	3	13430	3.4	463						
						1958	1	11770	3.7	439						
						1959	1	14590	3.9	569						
1132993	14	20	14164	3.6	510	1956	2	14770	3.5	522	2	13140	434	1	13189	447
						1957	4	15103	3.5	529	4	13740	490	2	13669	487
						1958	5	13268	3.6	482	4	12358	443	4	12432	445
						1959	8	14415	3.6	520	8	13988	522	8	13154	480
						1960	1	9170	3.9	360	1	11600	388			
1141527	36	41	13333	3.4	454	1958	3	10043	3.7	373	1	11740	413	1	13592	493
						1959	35	13479	3.4	456	29	12656	454	29	11215	441
						1960	5	14810	3.5	511	4	13080	493	4	13437	476
1145608	6	7	14756	3.7	553	1956	1	15490	3.9	606						
						1958	3	13420	3.6	485	2	12625	469	3	12550	460
						1959	2	17470	3.8	668	2	13720	522	1	14050	525
						1960	1	13530	3.7	502						
1145788	5	7	13248	3.9	511	1957	2	12180	4.0	476	2	11925	433	2	11772	446
						1958	2	13040	3.8	491	1	14500	499	1	11598	421
						1959	3	14787	3.8	565	3	13533	518	3	12371	465
1146113	1	1	6720	3.6	239	1959	1	6720	3.6	239	1	16270	517	1	12775	433
1148501	3	5	15055	3.6	531	1956	3	16077	3.6	570	3	14113	501	1	13505	453
						1957	1	11680	3.3	386	1	13840	501	1	14780	535
						1958	1	19260	3.4	647	1	14080	509	1	12241	449
1148601	89	129	13650	3.5	475	1955	3	14337	3.4	485	2	11550	415	2	11293	435
						1956	23	13324	3.6	477	19	13845	503	20	13009	461
						1957	25	12360	3.6	447	24	12615	444	22	12605	448
						1958	32	13532	3.5	475	27	13739	487	29	12467	471
						1959	42	14804	3.5	510	38	14073	502	33	13268	502
						1960	4	12095	3.3	403	3	12583	459	3	14508	501
1151863	1	1	13800	4.0	553	1959	1	13800	4.0	553	1	11060	391	1	11783	426
1152126	10	10	13164	3.7	483	1959	7	13329	3.7	493	7	12909	476	7	12308	456
						1960	3	12780	3.6	458	3	14247	527	3	13905	512
1152211	6	6	12328	3.5	436	1957	5	13397	3.5	473	3	14347	502	3	13382	489
						1958	2	12185	3.6	441	1	13270	474	1	11260	403
						1959	1	9410	3.4	318	1	14910	505	1	12960	462
1152351	1	2	14230	4.0	570	1959	2	14230	4.0	570	1	12260	447			
1153646	2	2	13660	3.6	486	1959	1	13070	3.4	448	1	13010	477	1	13505	452
						1960	1	14250	3.7	524	1	16620	590	1	15740	546
1153740	1	1	8790	4.0	355	1959	1	8790	4.0	355	1	12630	437	1	13560	457
1156059	8	8	12459	3.7	464	1959	7	12521	3.8	475	7	13683	507	7	13267	488
						1960	1	12020	3.2	382	1	11810	431	1	12295	431
1164014	6	12	14261	3.9	553	1956	5	13160	4.0	527						
						1957	5	15242	3.9	584						
						1958	2	14560	3.7	541	1	14030	487			
1164018	4	4	14835	3.7	547	1958	2	14375	3.6	511	1	10040	381			
						1959	1	16110	3.5	564	1	16120	605	1	14017	494
						1960	1	14480	4.2	604	1	12870	451	1	12960	468
1167093	1	1	12900	3.7	474	1959	1	12900	3.7	474	1	11390	425	1	13026	473
1167510	3	3	14523	3.5	504	1959	3	14523	3.5	504	3	13273	463	3	13491	486
1170910	4	6	11528	3.6	407	1958	3	13543	3.3	446	2	13550	469			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	MILK LB.	FAT LB.
HOLSTEIN																
						1959	2	11925	3.5	402	2	12050	419	2	11494	401
						1960	1	9480	4.1	389	1	12360	463	1	11238	408
1172141	1	2	12845	3.5	448	1959	1	12080	3.5	425	1	11420	429	1	12208	457
						1960	1	13610	3.5	471	1	8430	382	1	10006	423
1173338	3	3	12610	3.8	479	1959	3	12610	3.8	479	3	13593	515	2	13527	514
1174840	8	8	10810	3.7	388	1959	7	10777	3.7	382	7	11674	432	7	12907	480
						1960	1	11040	3.9	430	1	12880	491	1	13451	500
1175467	1	1	12570	3.8	475	1957	1	12570	3.8	475	1	12000	469			
1178237	3	3	17307	3.7	640	1959	3	17307	3.7	640	3	17450	649	3	15533	577
1178742	2	2	9490	3.8	359	1958	2	9490	3.8	359	2	10860	402	2	11794	446
1179373	1	1	15630	4.0	618	1959	1	15630	4.0	618	1	12940	479	1	13429	459
1179574	2	2	10200	3.7	376	1958	1	9690	3.5	339	1	11730	440	1	11521	416
						1959	1	10710	3.8	412	1	14310	496	1	15184	536
1179575	2	3	11555	3.8	436	1958	2	10740	3.8	406	2	12045	440	1	14323	510
						1959	1	15690	3.8	601	1	16260	592	1	14017	494
1182598	2	2	12750	3.6	462	1957	1	11590	3.4	398						
						1960	1	13910	3.8	525	1	13320	496	1	13930	518
1184848	5	6	16768	3.7	625	1958	1	19310	3.3	646				1	9429	397
						1959	5	16520	3.8	638	4	12533	469	5	10756	494
1185325	8	8	13233	3.7	488	1956	8	13233	3.7	488						
1189010	3	7	16688	3.8	640	1958	5	16524	4.0	654	2	16110	582	5	10000	574
						1959	2	17105	3.6	616	1	13850	520	1	15456	572
1189590	48	73	12549	3.7	460	1957	1	16440	3.6	594				1	15042	529
						1958	20	13284	3.7	485	12	12893	465	9	8777	462
						1959	41	12371	3.7	455	31	12227	438	39	9697	457
						1960	11	12870	3.5	456	10	11497	416	10	12863	462
1190151	2	2	12620	3.5	446	1959	1	11110	3.4	379	1	14420	479	1	14017	472
						1960	1	14130	3.6	512	1	15230	575	1	14421	538
1192779	1	1	13020	3.3	433	1958	1	13020	3.3	433	1	10560	379			
1192826	25	29	12560	3.6	451	1958	2	11010	3.7	393	1	14670	531	1	12829	447
						1959	21	12352	3.7	451	18	13243	487	18	12024	489
						1960	6	14058	3.5	490	6	12703	447	3	13665	447
1193934	1	1	15120	3.3	503	1959	1	15120	3.3	503	1	11920	383	1	12644	440
1194166	4	10	14246	4.0	565	1956	1	12600	4.0	498	1	14470	519	1	14868	517
						1957	1	11890	4.2	503	1	12080	473	1	14268	497
						1958	4	13995	4.1	575	4	12548	447	3	12710	458
						1959	4	14535	3.4	550	3	11967	447	3	8851	461
1195742	3	5	10872	3.5	387	1958	4	10875	3.5	380	3	12633	459	4	9933	447
						1959	1	9190	3.5	324	1	11740	437	1	12437	441
1199818	1	1	10830	3.2	346	1959	1	10830	3.2	346						
1200288	2	5	14042	3.8	529	1958	3	14593	3.7	536	2	13585	477	3	9399	474
						1959	1	13030	3.7	478	1	9040	327	1	12012	440
						1960	1	13420	4.0	539	1	11960	438	1	11238	408
1203114	2	2	14980	3.6	530	1958	1	14560	3.6	519	1	11590	404			
						1959	1	15400	3.5	540	1	15270	570	1	15772	578
1204749	1	1	8590	3.4	297	1957	1	8590	3.4	297	1	10780	396	1	12481	456
1206774	7	8	11881	3.6	430	1958	1	10690	3.9	422				1	14497	572
						1959	3	13327	3.8	500	2	11440	427	3	12778	473
						1960	4	10868	3.5	381	4	12313	444	3	13233	447
1212420	40	59	13725	3.6	490	1958	15	12363	3.5	438	9	11647	427			
						1959	44	13944	3.6	498	34	12287	439	31	8060	406
1213875	1	1	13900	4.1	569	1959	1	13900	4.1	569	1	11080	413	1	12175	444
1215995	1	2	19420	3.0	587	1959	2	19420	3.0	587	1	15670	515	1	12775	433
1216399	21	26	12519	3.7	463	1958	3	13487	3.6	487	3	13987	520	3	14461	532
						1959	20	12594	3.7	468	18	13237	472	20	12288	489
						1960	3	10377	3.5	360	2	12865	502	1	14889	580
1216957	4	5	12976	3.8	498	1959	3	13430	3.9	530	3	14957	542	3	14181	516
						1960	2	14450	3.6	536	2	13775	472	2	12824	447
1217566	1	1	10540	4.1	433	1960	1	10540	4.1	433						
1218949	1	1	13060	3.5	452	1960	1	13060	3.5	452	1	9920	353	1	14573	532
1221775	18	30	11570	3.7	427	1956	1	13100	3.5	465						
						1958	7	11514	3.8	425	4	12155	445			
						1959	20	12178	3.7	455	13	11955	436			
						1960	2	8515	3.7	306	2	9885	317	1	13026	467
1222973	16	19	13832	3.5	479	1957	1	8330	3.1	262	1	11520	411	1	12731	444

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
						1958	9	13157	3.7	479	7	14656	518	7	12404	485	
						1959	7	15056	3.4	495	6	15252	551	5	14789	515	
						1960	2	15160	3.6	538	2	12140	462	2	12668	473	
1224313	4	4	12318	3.5	435	1958	2	13430	3.5	471	2	13475	471	2	13647	488	
						1959	2	11205	3.6	399	2	12720	447	1	11696	415	
1224521	1	1	10990	3.9	423	1959	1	10990	3.9	423	1	13270	458	1	11445	428	
1225113	6	9	14266	3.5	494	1957	3	15870	3.5	560	3	15287	536	3	13214	480	
						1958	5	15024	3.4	507	3	13363	470	5	10904	478	
						1959	1	13310	3.2	428	1	17230	605	1	13124	440	
1230731	2	2	14005	3.7	504	1959	2	14005	3.7	504	2	13445	526	1	11532	448	
1231506	3	3	12233	3.8	469	1959	2	11635	3.9	449	2	12740	448	2	12306	423	
						1960	1	13430	3.8	509	1	12950	449	1	12426	432	
1236493	1	1	13740	3.7	506	1959	1	13740	3.7	506	1	13370	492	1	14530	528	
1238361	1	1	15180	3.3	496	1958	1	15180	3.3	496	1	17460	586	1	16328	522	
1241692	2	3	12375	3.2	399	1959	3	11150	3.2	360	2	13125	454	3	10083	502	
1242194	1	1	10890	4.0	434	1959	1	10890	4.0	434							
1246450	2	4	16527	3.6	587	1958	2	19880	3.4	683	1	16580	614				
						1959	2	16610	3.6	590	2	15265	538	2	15795	562	
1246568	8	8	13060	3.5	463	1959	3	13177	3.6	470	3	14967	524	1	15053	510	
						1960	5	12990	3.5	458	3	14173	530	4	13783	507	
1246729	1	1	13980	4.6	649	1959	1	13980	4.6	649	1	13240	480	1	13810	500	
1260267	2	2	13765	3.6	500	1960	2	13765	3.6	500	2	9440	362	2	11979	452	
1261381	1	1	15510	3.8	593	1959	1	15510	3.8	593	1	12390	456	1	11968	461	
1261382	1	1	14550	4.5	655	1959	1	14550	4.5	655	1	13060	497	1	13919	534	
1264447	1	1	7460	4.2	315	1959	1	7460	4.2	315	1	10940	389				

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
JERSEY																
391579	22	70	6690	5.1	343	1951	6	7523	5.3	396						
						1952	14	6789	5.2	348						
						1953	18	6732	5.3	354						
						1954	13	6475	5.3	342						
						1955	9	6568	4.8	316						
						1956	5	6418	4.7	301						
						1957	3	5643	4.6	259						
						1958	2	3460	4.5	151						
398840	1	3	6093	4.6	283	1947	1	3350	4.7	159						
						1948	1	7600	4.6	351						
						1949	1	7330	4.6	340						
401669	1	1	6200	4.7	292	1953	1	6200	4.7	292						
405995	4	7	6786	5.4	362	1950	4	6735	5.5	372						
						1952	1	8050	5.4	436						
						1955	1	9560	4.7	450						
						1956	1	5770	4.8	278						
408649	1	1	3410	6.1	208	1948	1	3410	6.1	208						
410962	3	5	5829	6.0	346	1959	4	5650	6.3	350	2	7445	394	2	6050	346
						1960	1	5420	5.9	321	1	7520	371	1	7292	397
411482	8	30	6733	5.1	341	1947	4	7155	5.2	372						
						1948	6	6707	5.4	361						
						1949	5	7226	5.3	382						
						1950	4	6810	5.0	338						
						1951	4	6523	4.8	300						
						1952	1	6500	4.0	262						
						1953	1	7370	4.6	337						
						1954	1	6270	4.2	262						
						1955	1	7770	4.0	312						
						1956	1	8960	4.1	369						
						1957	1	9350	4.2	395						
						1958	1	6320	4.1	259						
412443	5	17	7693	5.6	426	1950	2	9135	5.2	476	2	11095	591			
						1951	4	8678	5.5	474	3	10033	490			
						1952	4	7080	5.5	389	3	8270	428			
						1953	2	5515	5.7	319	2	7515	427	1	10704	377
						1954	2	6545	5.9	381	2	5725	326	1	9112	332
						1955	1	7370	6.3	462	1	8370	492			
						1957	1	6930	5.8	400	1	9020	458			
						1958	1	6980	5.4	376	1	7490	319			
412750	1	3	7667	6.0	460	1956	1	7240	6.1	445	1	7740	480			
						1957	1	7860	6.0	475	1	7090	420	1	7619	451
						1959	1	7900	5.8	461	1	7450	381	1	6050	346
419248	3	6	6776	5.5	376	1959	5	6448	5.4	350	3	8233	451	3	8208	452
						1960	1	6080	5.1	310	1	9860	513	1	7761	414
420915	9	22	5346	5.4	288	1950	6	5262	5.4	283						
						1951	4	5785	5.3	305	1	6650	375			
						1952	3	5230	5.6	289						
						1953	4	4458	5.2	232	1	6540	339	1	6649	351
						1954	2	5360	5.0	266						
						1955	2	5265	5.2	270						
						1956	1	5120	5.1	264						
426161	1	2	5525	5.5	305	1949	1	5810	5.7	332						
						1950	1	5240	5.3	278						
426463	1	3	7880	6.1	485	1953	1	7370	5.7	423						
						1954	1	6900	5.6	386						
						1956	1	9370	6.9	647	1	10100	561			
426784	2	8	5727	6.0	340	1953	1	4710	6.2	294	1	6950	316	1	6137	322
						1954	1	6030	5.9	355	1	7950	339			
						1955	1	4520	5.7	256	1	7700	328	1	7445	341
						1956	2	5600	5.9	329	2	8290	416	2	8023	406
						1957	2	5395	6.0	324	2	8940	449	2	8028	418
						1958	1	4330	5.8	252	1	8360	414	1	6033	374
426851	10	26	7254	5.4	387	1949	2	7055	5.6	395						
						1950	8	7889	5.4	426						
						1951	5	7690	5.3	404						
						1952	3	7993	4.9	384	1	11520	546			
						1953	2	9620	5.2	500	1	8780	440			
						1954	2	6665	5.4	371	2	7770	377			
						1955	1	8210	4.7	387	1	7570	325	1	8121	375
						1956	1	9000	5.2	467	1	7240	341	1	8633	405
						1957	2	5405	5.5	297	2	6350	333	1	7848	380
429684	3	5	8043	5.6	447	1951	1	7840	5.9	459						
						1954	1	7710	4.7	365						
						1955	2	8280	5.3	439	1	9440	490			
						1956	1	8310	6.2	518	1	10650	626			

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
JERSEY																	
431207	1	3	6337	6.1	380	1955	1	6400	6.5	417							
						1956	1	6320	5.9	374							
						1957	1	6290	5.9	373							
437533	2	3	5508	5.5	298	1952	1	3890	5.8	226							
						1955	1	7300	5.4	391	1	7960	394	1	8382	402	
						1956	1	6950	5.0	349	1	7810	337	1	8426	305	
438165	1	5	8898	5.2	464	1953	1	8930	5.3	473	1	6850	371	1	6649	347	
						1955	1	8910	5.4	460	1	7760	422	1	6747	367	
						1956	1	9160	5.2	474	1	7710	417	1	7957	423	
						1957	1	8160	5.2	426	1	8560	430	1	8208	432	
						1958	1	9330	5.0	469							
439203	1	5	8068	4.4	352	1953	1	9100	4.6	415	1	6030	320	1	6649	351	
						1954	2	8450	4.3	360	2	5675	272				
						1955	1	9710	4.4	423	1	5670	296	1	5308	264	
						1956	1	4630	4.4	203	1	5310	270	1	5156	246	
439930	2	5	5592	5.9	331	1956	1	6590	5.9	389	1	7960	499				
						1957	1	6010	6.3	380	1	7170	429	1	7619	451	
						1958	1	5110	6.0	306	1	7770	428	1	7499	455	
						1959	2	5725	5.9	338	2	8110	426	2	6050	346	
441066	3	6	6765	5.5	372	1955	2	8280	5.7	470	2	6330	311				
						1956	2	7410	5.3	391	2	6920	353	2	8175	433	
						1957	1	7980	5.2	416							
						1960	1	4540	5.7	258	1	7210	354	1	6387	329	
443668	53	191	6445	5.7	363	1947	7	6093	5.9	356							
						1948	25	6228	5.9	368	1	8730	419				
						1949	29	6566	5.7	371	1	8260	457				
						1950	23	6822	5.5	378	1	9890	528				
						1951	24	6666	5.6	375	1	9800	513				
						1952	21	6549	5.6	362	1	10910	570				
						1953	19	5951	5.6	333	1	9950	499	1	10301	543	
						1954	16	6632	5.3	353	1	9970	504				
						1955	13	5636	5.3	304							
						1956	7	6766	5.3	358							
						1957	4	7055	5.3	373							
						1958	3	5210	5.2	269	1	7530	377				
445150	1	3	7733	5.4	413	1954	1	7260	5.4	391	1	6920	371	1	6409	330	
						1955	1	8030	5.5	438	1	7940	439	1	6747	367	
						1956	1	7910	5.2	411	1	7330	389	1	7957	423	
447609	14	50	7249	5.2	372	1949	6	7982	5.0	395							
						1950	6	7868	4.9	387	2	9670	459				
						1951	8	6986	5.2	359	1	8720	432				
						1952	8	8156	5.3	431	2	9170	473				
						1953	6	7480	5.2	391	2	9580	499	2	10301	543	
						1954	5	7192	5.4	387	2	9250	460				
						1955	5	7046	5.2	361	2	10350	506	1	9690	507	
						1956	2	7280	5.5	397	1	9610	476				
						1957	2	8060	5.1	410	2	10410	511				
						1958	2	8490	5.0	423	2	9335	458				
449171	1	1	6390	5.7	364	1948	1	6390	5.7	364							
449432	9	18	7471	5.1	366	1956	2	5165	6.0	297	2	7805	396	2	6039	305	
						1957	4	7370	5.2	372	2	9070	479				
						1958	7	8674	4.6	397	2	6245	299	1	6736	354	
						1959	5	7752	4.8	374	2	8720	414	4	6450	398	
449541	20	53	6916	5.4	376	1951	5	7998	5.3	426	5	7682	396				
						1952	11	6798	5.6	381	7	8023	424				
						1953	13	7264	5.4	398	8	7214	364	6	8282	437	
						1954	10	7783	5.6	432	6	7452	392	3	8880	462	
						1955	7	6199	5.3	333	3	7550	387	3	7692	396	
						1956	4	6848	5.2	361	3	7497	391	3	7339	378	
						1957	1	6980	6.0	418							
						1958	1	5240	5.5	290							
						1960	1	6260	4.9	307	1	7160	353	1	6071	316	
449709	4	4	6230	5.2	320	1955	3	6373	5.1	323	3	7973	376	3	8142	357	
						1956	1	5800	5.4	312	1	7560	353	1	6551	310	
449719	9	24	8131	5.5	446	1950	1	9090	5.4	494							
						1951	1	9160	5.6	511							
						1952	2	8545	5.8	494							
						1953	6	8997	5.6	500	3	7580	389	3	7532	395	
						1954	9	7673	5.5	423	4	7770	427				
450153	11	21	5614	5.5	311	1955	5	8368	5.4	458	3	7800	436	3	8578	470	
						1948	1	5110	5.4	277							
						1949	3	6290	5.4	342							
						1950	1	4750	5.3	252							
						1951	3	5383	5.8	311							
						1952	3	6320	5.7	362	1	8550	449				
						1953	3	6130	5.6	343	1	9720	506	1	10301	543	
						1954	3	5370	5.5	290	1	8930	449				
						1955	2	4405	5.7	250							
						1956	2	4805	5.3	250							
452342	4	9	7882	5.7	439	1953	2	7685	6.0	454	2	7200	386	2	7701	399	



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
JERSEY																	
						1954	2	6460	6.1	391		2	7645	416	1	7477	385
						1955	1	9050	5.5	500		1	7710	378	1	8382	402
						1956	3	8797	5.2	456		2	8195	406	1	8426	385
						1957	1	8460	5.1	434							
454049	2	6	5914	5.7	336	1953	1	5130	5.5	283							
						1954	1	6680	6.2	412		1	7600	388	1	6409	330
						1955	1	7450	6.0	447		1	7910	394	1	6747	367
						1956	1	6840	5.7	366		1	7640	417	1	7957	423
						1957	1	6750	5.5	369		1	8210	440	1	8208	432
						1958	1	5770	5.7	329		1	7320	389	1	8230	436
454223	5	18	6553	5.5	365	1950	2	8030	5.5	438		1	6220	321			
						1951	4	6755	5.8	391		1	7660	453			
						1952	4	6460	5.5	360							
						1953	4	5998	5.6	358		1	9560	556	1	6584	392
						1954	2	7100	5.9	415		1	7350	424			
						1955	2	6815	5.7	384							
457682	2	3	6943	5.0	343	1953	1	5740	5.3	302		1	6800	336	1	8001	390
						1954	2	6565	5.0	322		1	5400	277	1	7063	337
460440	5	14	6435	5.4	348	1953	1	6340	5.3	336							
						1954	2	7515	5.4	408		1	6790	364	1	6409	330
						1955	2	5665	5.3	298							
						1956	5	6786	5.6	378		1	7690	417	1	7957	423
						1957	3	6250	5.6	345		1	8020	433	1	8208	432
						1958	1	5450	6.0	325							
460676	2	3	9558	4.8	453	1958	1	8730	4.8	420							
						1959	2	9600	4.9	475		1	8150	386	1	8339	421
461003	1	1	8110	5.6	457	1957	1	8110	5.6	457					1	7249	386
461523	10	10	7876	5.3	415	1953	1	8300	5.7	470		1	7480	408	1	8306	451
						1954	2	6430	5.2	335							
						1955	4	7868	5.3	416		2	8720	441	4	7513	392
						1957	3	8710	5.2	450		3	8995	452	1	8753	435
463576	2	2	7765	5.1	400	1955	1	7020	4.9	346							
						1960	1	8510	5.3	454		1	7100	349	1	6289	325
465708	1	2	12645	4.1	512	1959	1	14030	4.0	555							
						1960	1	11260	4.2	468							
466861	10	12	7311	5.4	391	1956	3	6813	5.4	366		3	7033	347	3	5726	286
						1957	8	7535	5.4	407		5	6770	358	3	6675	346
						1958	1	7320	4.7	348		1	8910	472	1	7510	376
466979	1	1	6730	4.6	311	1950	1	6730	4.6	311							
468908	4	4	7585	5.3	399	1954	2	8500	5.3	443		1	8940	449			
						1956	1	6620	5.7	380							
						1957	1	6720	4.9	328		1	9050	467			
468937	3	5	8657	5.7	491	1958	3	7140	5.6	395		1	8050	434	1	8655	471
						1959	2	9415	5.7	539		2	8050	443	2	8208	452
469885	16	35	6449	5.4	345	1952	1	7380	5.4	401							
						1953	9	6332	5.7	357		3	6363	364			
						1954	10	6249	5.3	333		6	6525	358			
						1955	5	7504	5.3	384		3	6313	316	2	7074	374
						1956	5	6056	5.6	342		2	7490	427	2	7287	373
						1957	2	7390	4.8	343		1	5680	295	1	7259	362
						1958	3	7087	5.0	357		1	7170	367	1	6736	354
469887	4	6	6709	5.3	343	1953	1	8900	5.1	456		1	7420	399			
						1954	3	5080	5.5	279		2	8255	429			
						1955	1	7380	5.1	376		1	8840	469	1	7772	412
						1959	1	10830	4.6	498		1	8800	458	1	8044	404
470097	1	2	7520	4.8	362	1950	1	7500	5.0	377							
						1951	1	7540	4.6	347							
470314	9	20	6577	5.0	324	1950	1	6600	4.9	326							
						1951	6	6235	5.1	315		2	7080	394			
						1952	6	7255	5.0	364		2	5530	294			
						1953	3	5793	4.7	279		2	6650	334	2	6584	347
						1954	2	6510	4.7	308		1	6320	294			
						1955	1	6080	4.5	273		1	6140	306	1	6311	316
						1956	1	3070	4.6	142		1	6960	335	1	6584	338
470982	13	20	8292	5.3	437	1950	2	6555	5.7	370							
						1952	1	7960	5.4	434		1	10330	522			
						1953	5	8546	5.5	463		5	9480	485	2	9134	521
						1954	5	9528	5.3	502		3	9330	480	3	9160	500
						1955	1	9000	5.5	499		1	8350	406	1	7390	396
						1956	3	7803	5.0	390		3	6887	352	1	7477	402
						1957	2	7975	5.2	413		2	6900	367	1	7924	413
						1958	1	7570	5.2	396		1	7290	313			
470985	1	3	4660	5.7	262	1956	1	4780	5.6	267		1	8880	527			
						1957	1	4380	6.1	265		1	7590	450	1	7619	451
						1958	1	4820	5.3	254							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
JERSEY																
471534	2	2	5515	5.3	289	1956	2	5515	5.3	289	2	8505	490	2	8382	467
472114	1	1	7030	6.3	441	1959	1	7030	6.3	441						
473215	3	7	11905	4.6	545	1958 1959 1960	2 3 2	12345 12373 11145	4.5 4.6 4.5	560 564 496	1 2 2	10240 9380 8060	503 482 426	1 1	11314 10279	561 502
473218	1	1	7920	5.7	448	1959	1	7920	5.7	448	1	8630	421	1	10279	502
474789	1	1	9610	4.8	465	1957	1	9610	4.8	465	1	8690	450			
474826	2	6	7735	5.6	431	1959 1960	4 2	8475 6255	5.6 5.6	473 346	2 2	8470 7580	457 371	2 2	6050 7292	346 397
475668	16	29	5998	5.4	322	1953 1954 1955 1956 1957 1958 1959	4 5 5 4 7 2 2	5988 5924 6242 7048 5564 7850 6865	5.2 5.4 5.3 5.3 5.3 4.8 5.3	307 320 333 377 301 376 359	3 4 4 4 6 1 2	6090 7565 7258 9013 6220 8110 8075	329 386 376 459 322 461 421	1 1 4 4 3 2 2	8001 6758 6990 7546 7263 8862 7570	390 364 368 394 363 482 407
477348	1	3	8830	4.5	397	1953 1954 1956	1 1 1	9460 7020 10010	4.4 4.5 4.5	420 319 451	1 1 1	7910 8300 8880	450 419 463	1 1 1	9330 9854 8458	481 511 444
477784	1	2	3225	5.4	173	1953 1954	1 1	3770 2680	5.3 5.4	201 144						
478616	1	2	6130	5.5	339	1955 1956	1 1	6300 5960	5.5 5.5	346 331						
478650	8	12	6278	5.6	355	1954 1955 1956 1957 1958	1 4 2 3 2	6530 6748 5645 7163 5440	5.8 5.6 5.2 5.8 5.6	379 377 295 412 304	1 1 1	7010 8000 8310	372 440 459	1 1 1	6409 6747 8251	330 367 484
479243	10	14	6664	5.2	348	1955 1956 1957 1958 1959	1 5 4 3 1	6030 6494 7573 7313 6110	5.4 5.1 5.1 5.0 6.0	328 332 387 368 367	1 2	7920 8865	425 446	1 2	7957 8208	423 432
486357	2	5	7345	4.6	338	1951 1952 1954 1955	1 2 1 1	8150 7230 8590 4310	5.0 4.8 4.0 4.1	408 343 345 178	1 1 1 1	6460 7130 6670 6960	342 378 352 362	1 1	6932 7379	363 386
487501	8	10	8816	5.3	463	1955 1956 1957 1958 1959 1960	1 2 1 1 4 1	10810 9165 7600 9500 8695 7680	5.2 5.4 5.4 5.1 5.2 5.3	561 487 407 484 448 408	1 1 1 3 1	9540 6490 6830 9053 10640	459 348 366 467 473	1 1 1 2 1	9690 10965 6377 7254 8099	445 522 337 379 396
490707	3	4	7692	5.1	394	1957 1958	2 2	9040 7600	5.2 5.1	464 386	2 1	8570 7920	433 416	2 1	8208 8230	432 436
491174	1	1	7480	5.0	371	1960	1	7480	5.0	371	1	8000	432			
493505	6	6	6735	5.6	371	1957 1958 1959	1 2 3	7550 6945 6323	5.2 5.4 5.9	394 364 369	1 2 3	7850 7485 6227	408 375 326	1 3 3	8208 8230 7561	432 436 407
496820	1	1	9270	4.9	457	1958	1	9270	4.9	457	1	7880	424	1	7935	429
497599	1	1	5510	4.6	251	1959	1	5510	4.6	251	1	6910	354	1	6039	324
499207	7	12	8629	5.2	443	1959 1960	9 3	9013 8747	5.0 4.9	447 426	5 2	8958 8325	461 424	7	6640	418
499240	8	20	5286	5.5	291	1951 1952 1953 1954 1955 1956	1 1 9 5 2 2	6930 6760 5721 4622 3695 5100	5.7 5.7 5.4 5.8 5.8 5.1	392 387 309 269 218 259	5 4 2 2 2	6836 5555 6625 6630	351 295 372 329	2 3 2 2	8001 6282 5827 5570	390 315 325 276
502114	1	1	6380	5.6	358	1960	1	6380	5.6	358	1	5540	326	1	7521	407
504895	6	13	7103	4.9	340	1954 1955 1956 1957 1958	3 5 3 1 1	7440 6646 7477 7340 7690	4.7 5.1 4.9 4.6 4.3	334 333 359 335 330	1 2 2 1	6470 8440 7870 8410	299 370 362 361	2 2 1	7369 7107 6605	313 327 319
505700	5	12	8726	5.1	434	1952 1953 1954 1955 1956	2 2 1 2 1	9810 8345 5130 7450 7180	4.9 4.7 5.2 5.5 5.4	472 389 266 401 390						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
						JERSEY										
						1957	2	9980	5.0	496						
						1958	2	9785	4.8	471						
507867	1	3	7073	5.9	422	1958	2	6810	5.9	405	1	9620	470	2	5259	467
						1959	1	7600	6.0	455	1	8900	436	1	8513	427
508078	1	1	11680	5.0	587	1959	1	11680	5.0	587						
509519	5	7	7717	5.3	407	1958	1	5820	5.3	307						
						1959	4	8508	5.3	455	4	8800	468			
						1960	2	7300	4.9	355	2	8450	480			
512545	2	3	8075	4.8	383	1959	1	7230	5.3	382	1	8370	412	1	8633	453
						1960	2	8920	4.3	384	1	12540	537	2	8579	430
515663	7	15	6802	5.6	377	1953	5	6916	5.7	388	5	6656	377	1	11859	415
						1954	5	7276	5.5	396	5	7880	390	2	6884	354
						1955	4	7233	5.6	402	3	7157	365	3	6638	352
						1956	1	7250	5.9	426	1	6510	377	1	6911	402
516302	1	1	9160	5.5	500	1957	1	9160	5.5	500						
517080	5	5	8600	5.1	434	1956	1	8840	5.5	486	1	9720	486			
						1959	1	9960	4.8	477	1	9640	404	1	9211	403
						1960	3	8067	5.0	402	3	7053	350	3	6322	326
517081	3	3	6380	5.7	372	1957	1	5040	6.0	302	1	7200	376	1	9439	516
						1959	1	8700	6.2	544	1	7520	380	1	8807	443
						1960	1	5400	5.0	271	1	7190	354	1	6387	329
517082	1	2	7390	5.9	433	1959	2	7390	5.9	433	1	8740	385	2	4758	383
518863	1	1	3960	4.8	190	1960	1	3960	4.8	190						
519934	1	1	6580	5.8	384	1957	1	6580	5.8	384	1	6300	339			
520051	6	7	7921	5.5	431	1959	4	8985	5.5	498	4	8875	492	3	9243	508
						1960	3	5860	5.7	323	1	9300	485	3	8691	492
521686	5	8	8457	5.7	479	1958	2	9460	5.6	528	1	7860	424			
						1959	5	8942	5.6	496	4	8353	433	4	7927	426
						1960	1	3500	5.2	181				1	7957	426
521688	3	4	8272	5.3	439	1954	1	7040	5.2	363						
						1955	1	8380	5.8	486						
						1956	1	8350	5.6	464						
						1960	1	9410	5.1	480	1	8580	431			
522014	2	2	8110	5.0	400	1956	1	6920	5.0	347	1	10680	555			
						1958	1	9300	4.9	453	1	8200	382	1	8764	413
533517	1	1	9220	4.7	434	1958	1	9220	4.7	434	1	9720	542	1	8753	463
534119	1	1	8420	5.5	463	1959	1	8420	5.5	463	1	9020	461	1	8044	404
534366	1	1	7320	5.3	386	1959	1	7320	5.3	386	1	7240	388			
537666	1	1	7660	5.0	388	1960	1	7660	5.0	388	1	5710	294	1	6006	319
538546	5	5	10098	5.4	542	1958	1	10530	5.4	572	1	9750	499	1	9123	473
						1959	3	8490	5.6	478	3	7513	412	3	7354	405
						1960	1	14490	4.8	703				1	13113	507
539737	6	10	7492	5.6	412	1959	7	7701	5.7	438	5	8612	454	5	6050	346
						1960	3	7550	5.1	382	3	7333	369	3	7292	397
541510	1	3	7820	5.6	434	1958	2	7740	5.5	422	1	6420	364			
						1959	1	7980	5.8	459	1	7640	433	1	7456	420
541603	1	1	8250	5.2	429	1958	1	8250	5.2	429						
542059	1	2	9950	5.0	496	1959	2	9950	5.0	496						
542372	1	1	7150	5.6	399	1960	1	7150	5.6	399	1	8420	473	1	8982	481
542373	4	5	7960	5.2	411	1958	3	7813	5.4	422	2	7925	420			
						1959	2	7975	5.0	397	2	7485	406	1	8164	448
542650	1	1	7240	5.1	371	1958	1	7240	5.1	371						
543688	1	1	6660	5.1	342	1959	1	6660	5.1	342						
546648	2	5	7727	5.2	392	1957	1	9090	4.5	408	1	10610	467			
						1958	2	7160	5.1	360	2	8245	376	1	8764	413
						1959	1	6550	6.0	394	1	5720	327	1	6017	340
						1960	1	10520	4.6	488	1	9160	435			
548594	3	6	6991	5.7	394	1958	2	7000	5.5	386	1	8210	444			
						1959	3	7500	5.8	427	1	8650	467	1	6050	346
						1960	1	9340	5.2	489	1	8580	431			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	505-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
JERSEY																
550723	1	1	7230	5.4	391	1959	1	7230	5.4	391	1	6420	373			
553507	1	1	8200	4.4	363	1959	1	8200	4.4	363				1	11739	676
553621	1	1	8460	6.2	525	1959	1	8460	6.2	525	1	8250	406	1	8502	437
554146	1	1	10100	5.0	502	1957	1	10100	5.0	502						
554291	1	1	6320	4.7	298	1959	1	6320	4.7	298	1	7540	396	1	8022	449
557267	2	2	9655	5.4	517	1959	2	9655	5.4	517	1	8150	467	2	8159	398
557268	6	9	8140	5.6	456	1959	6	8053	5.8	464	3	9840	514	5	6839	404
						1960	3	8737	5.3	467	2	7545	373	3	7772	404
561487	1	1	5760	6.4	367	1959	1	5760	6.4	367						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPLO BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
BROWN SWISS																						
33080	11	26	12103	3.8	457	1949	4	12235	3.6	443												
						1950	5	11632	4.0	458												
						1951	5	10620	3.9	411	2	9585	412									
						1952	3	9790	4.0	380	2	11170	480									
						1953	3	12170	3.9	473	2	11145	460	2	9995	406						
						1954	2	9770	3.8	367	1	9780	396	1	9429	360						
						1955	2	14530	3.7	532	2	10860	410	1	9603	389						
						1956	1	10110	3.5	356	1	9920	396	1	10682	429						
						1957	1	10140	3.2	328	1	8100	315	1	10933	433						
37565	2	11	10457	4.2	440	1949	1	10480	4.2	443	1	10880	440									
						1950	1	7560	4.0	303	1	8840	347									
						1951	2	9995	4.1	414	1	12450	509									
						1952	2	11435	4.3	482	2	10630	418									
						1953	1	8640	4.1	351	1	10940	448	1	9091	351						
						1954	1	11790	4.0	466	1	10390	411									
						1956	1	8930	4.4	393	1	8400	339	1	8535	358						
						1957	1	12860	4.3	554	1	11580	437	1	8818	341						
						1958	1	12690	4.6	579	1	9960	368	1	7739	318						
38932	2	6	10568	4.3	449	1949	1	10120	4.6	462												
						1950	2	13960	4.1	574	1	13270	573									
						1951	1	4580	4.0	184	1	12110	502									
						1953	1	9930	4.4	438	1	13060	573	1	8528	339						
						1954	1	9980	4.0	396	1	12340	526	1	8796	348						
39441	22	71	9840	4.0	389	1948	2	11755	3.7	436												
						1949	12	10773	4.0	429	2	11050	438									
						1950	13	10315	3.9	407	5	10900	447									
						1951	14	9570	4.0	376	6	10367	428									
						1952	12	9296	3.8	358	6	10233	409									
						1953	4	8890	4.2	373	2	10175	410	2	9009	372						
						1954	4	10883	3.7	395	3	9713	399	3	9414	375						
						1955	2	10025	4.0	405	1	9820	368	1	9189	362						
						1956	3	11257	3.8	429	3	10380	432	3	9072	366						
						1957	2	10320	3.5	361	2	10455	433	2	10219	423						
						1958	2	12165	3.6	432	2	10715	436	2	10121	417						
						1960	1	7960	4.1	326	1	10890	432	1	10148	398						
						42266	11	20	9072	4.2	385	1952	1	7780	4.3	331						
												1953	5	7418	4.0	294	4	10263	423	3	9748	402
1954	5	8986	4.2	376	5							9878	411	5	9291	392						
1955	3	9287	3.9	366	3							8867	361	2	9347	376						
1956	1	12310	4.9	599	1							8640	398	1	9265	419						
1958	2	10050	4.2	424										1	8567	376						
1959	3	9450	4.2	397	1							9030	393	1	9429	403						
44741	1	4	8923	3.8	339	1947	2	8825	3.6	313												
						1948	1	8250	4.1	337												
						1949	1	9790	4.0	392												
45361	7	12	9513	4.5	423	1948	3	9940	4.7	458												
						1949	3	8673	4.4	382												
						1950	4	9880	4.2	416												
						1951	1	12560	4.5	563												
						1952	1	11490	4.4	509												
46136	1	1	12740	4.2	538	1947	1	12740	4.2	538												
46379	4	7	8673	4.1	353	1953	1	9040	4.1	369	1	10630	450									
						1954	1	11920	4.0	478	1	7560	326									
						1955	3	8593	4.0	338	3	8857	353	1	8437	337						
						1956	1	10800	4.2	455	1	10210	429	1	9570	371						
						1957	1	9010	3.9	353	1	9560	383	1	9232	383						
48098	2	5	7665	4.4	330	1953	1	4410	4.7	209												
						1954	1	9800	4.3	426	1	9380	392	1	10213	404						
						1955	1	12390	4.2	518				1	10061	410						
						1956	1	11820	4.0	477	1	11170	364	1	12295	498						
						1957	1	9670	3.9	379	1	11180	458	1	12361	512						
48160	7	12	10097	3.9	390	1950	1	8950	3.7	336												
						1952	1	8910	4.6	408												
						1953	3	10320	4.1	414	3	7700	296	3	9098	365						
						1954	2	10685	3.9	410	2	10485	448	2	9205	378						
						1955	1	11690	3.8	441	1	11320	432									
						1956	1	10160	3.9	400	1	11240	429									
						1959	3	11103	3.2	359	2	10215	400	2	9505	377						
49075	2	3	8628	4.3	369	1948	1	6250	4.4	274												
						1949	2	9160	4.2	387												
49626	2	2	9665	4.1	393	1948	2	9665	4.1	393												
50482	4	6	11474	4.2	481	1951	2	13195	4.2	548												
						1953	1	9650	3.8	369	1	18050	564									
						1955	1	10580	4.7	499	1	7910	365	1	8306	378						
						1956	1	8860	4.6	407	1	8800	405	1	9265	419						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.						
BROWN SWISS																						
50599	4	7	10951	4.1	4.38	1957	1	10130	4.7	473	1	8510	401	1	9483	438						
						1950	1	14440	4.0	585	1	7220	331									
						1951	2	12520	4.1	473												
						1952	1	9920	4.0	395												
						1953	1	12320	3.9	476												
						1955	1	9140	3.5	324	1	8030	317	1	7368	291						
						1956	1	9400	3.4	318	1	8320	340									
51258	3	9	8701	4.2	3.63	1956	2	8925	4.3	387	2	12370	523	2	10737	423						
						1957	2	10215	4.2	428	2	13460	527									
						1958	3	7903	4.2	333	2	11850	491	2	10911	439						
						1959	2	10320	4.3	456												
51694	1	1	12050	3.9	465	1953	1	12050	3.9	465	1	10710	449									
51890	1	1	16750	3.2	543	1955	1	16750	3.2	543				1	12731	516						
52728	26	43	10410	4.4	4.55	1956	3	11063	4.8	518	3	11900	490	3	11078	443						
						1957	6	10398	4.5	468	6	10508	416	6	10820	450						
						1958	12	11020	4.3	477	7	11483	468	6	8382	405						
						1959	17	9808	4.5	426	14	10081	450	13	8588	399						
						1960	5	14412	4.2	592	5	11920	495	2	12274	518						
52866	1	6	12605	4.0	4.91	1948	1	11580	4.1	473												
						1949	1	10730	3.9	415												
						1950	1	14310	3.7	532												
						1951	1	13290	3.6	479												
						1952	1	14950	3.4	513												
						1954	1	10770	5.0	535												
52926	2	11	9960	4.0	3.93	1949	2	12765	4.1	513	1	12170	495	2	9865	399						
						1951	2	10075	4.0	402	2	9340	376									
						1952	2	8820	4.0	348	2	10060	388									
						1953	2	9570	3.9	371	2	9550	375									
						1954	2	8090	4.0	319	2	9065	355									
						1955	1	9950	3.7	369	1	10570	403	1	9723	384						
53291	9	17	9971	4.0	3.96	1949	1	12400	3.8	476	1	11120	428	1	9581	371						
						1950	2	10255	3.9	377												
						1951	3	11330	3.8	435	1	11290	421									
						1952	3	10897	4.0	424	1	10590	421									
						1953	1	8420	3.2	273	1	11480	444									
						1954	2	8005	4.3	344	2	8860	380									
						1955	2	9735	4.5	409	2	12260	500	2	9881	396						
						1956	1	11290	4.0	455	1	11810	477	1	11249	461						
						1957	2	10545	4.0	417	2	10890	457	2	10950	463						
						53873	10	34	11022	4.0	4.40	1948	2	12245	4.3	516	1	11470	466	4	9609	390
1949	6	10687	4.1	455																		
1950	9	11706	4.0	466	4							12905	531									
1951	4	9645	4.1	401	2							11160	454									
1952	2	10190	4.3	434	2							11385	449									
1953	4	9603	4.3	410	4							10000	405									
1954	3	10110	4.1	415	3							10743	407	2	10529	415						
1955	2	12520	3.9	471	2							9820	387	2	10502	417						
1957	1	11400	4.1	463	1							11480	457	1	9886	397						
1959	1	9510	4.3	412																		
53913	10	24	11756	3.9	4.54	1953	2	12690	4.2	531	2	11615	500	4	10257	416						
						1954	9	11351	3.9	435	7	10764	448									
						1955	2	11850	3.9	462	2	10720	449	2	9788	409						
						1956	3	12677	3.9	485	3	12630	527	1	10431	456						
						1957	1	11920	4.0	480	1	14500	628	1	12709	562						
						1958	5	13200	3.9	519	3	13570	524	3	13571	558						
						1959	1	13690	3.8	527	1	13190	772	1	12154	505						
						1960	1	9470	3.6	336				1	12382	504						
54160	133	270	9966	4.1	4.11	1951	5	9532	4.1	388	3	10277	420	17	8977	378						
						1952	9	9596	4.1	393	5	9932	402									
						1953	31	9823	4.3	420	19	9285	386									
						1954	21	10517	4.2	440	11	9647	396	8	8735	376						
						1955	37	9884	4.2	417	26	10034	416	17	9363	390						
						1956	33	10371	4.2	430	26	10600	435	19	10226	415						
						1957	40	10567	4.1	431	28	10734	435	29	10199	412						
						1958	44	9490	4.1	389	28	10655	421	22	9947	423						
						1959	44	10521	4.0	419	34	11010	447	39	9055	426						
						1960	6	11577	4.0	461	4	10625	438	6	10906	435						
54162	1	1	8010	5.0	402	1953	1	8010	5.0	402	1	10980	453									
55470	8	13	10586	4.0	4.25	1954	2	10330	4.0	418	2	11360	467	1	7750	328						
						1955	3	10913	3.9	423	3	10350	446	2	9969	425						
						1956	2	11990	4.2	499	2	11880	487	2	11642	482						
						1957	3	11163	4.2	465	3	11173	442	2	11025	455						
						1958	1	10180	3.8	583	1	12650	472	2	5085	378						
						1959	2	8000	3.4	272	1	7450	293									
55722	7	12	8903	4.2	3.70	1951	3	7293	4.1	304	1	11300	424	1	9385	410						
						1952	2	10600	3.9	425	1	9850	427									
						1953	4	10153	4.2	414	1	10970	455									
						1954	3	8620	4.9	418	2	8980	399									
55865	1	2	9510	3.8	357	1949	1	10060	3.8	385												
						1950	1	8960	3.7	329												

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.		
BROWN SWISS																		
55967	1	4	10578	3.7	392	1950	1	12580	3.8	480	1	13970	550					
						1952	1	9580	3.8	366	1	9480	399					
						1953	1	10380	3.6	369	1	9630	404	1	10268	426		
						1954	1	9770	3.6	354	1	10160	417	1	10660	427		
56869	2	4	12175	3.8	460	1949	2	12195	3.9	470								
						1950	2	12155	3.7	448								
58032	30	46	8348	4.4	362	1950	3	6855	5.2	358								
						1951	6	7327	4.8	341								
						1952	7	9176	3.8	354	2	10515	418					
						1953	9	9452	4.1	387	7	9950	415	4	9570	400		
						1954	9	9663	4.3	405	8	9956	417	8	9357	391		
						1955	4	10545	3.8	399	2	10870	435	1	9548	377		
						1956	5	8622	4.5	385	5	10448	426	4	9704	413		
						1958	2	5880	4.2	247	1	12770	536	1	13396	560		
						1959	1	2720	4.5	122	1	8290	352	1	14159	618		
58096	2	9	8801	4.2	371	1948	2	8955	4.3	367	1	11200	448					
						1949	1	10160	4.6	466	1	13160	505					
						1950	1	12010	4.4	526	1	11490	484					
						1951	1	9560	4.2	399	1	8510	354					
						1953	1	12520	3.8	475	1	9800	413	1	10420	446		
						1954	1	10880	4.2	455	1	9730	404	1	8851	349		
						1955	1	12360	4.3	535	1	12180	542	1	9843	419		
						1956	1	12570	4.3	542	1	11180	467	1	12873	540		
58254	9	17	11479	4.1	467	1954	1	12060	3.8	460	1	15750	602	1	11500	468		
						1955	6	12985	4.1	517	5	10200	393	4	10663	441		
						1956	6	11050	4.1	445	5	10988	447	5	11027	445		
						1957	2	11705	3.9	454								
						1958	2	9965	4.0	400	2	9435	388	2	9739	396		
59456	1	2	6600	4.2	273	1956	1	7980	4.0	317	1	10020	450	1	8993	376		
						1957	1	5220	4.4	229	1	9460	414	1	9418	391		
59620	1	2	8345	4.2	353	1956	1	9430	4.5	423	1	10170	457	1	8993	376		
						1959	1	7260	3.9	263	1	7550	334	1	9625	404		
59699	1	1	9740	4.8	470	1954	1	9740	4.8	470	1	10200	403	1	9756	401		
59936	2	3	9015	3.9	358	1956	2	9860	4.0	398	2	10825	425					
						1957	1	8350	4.1	345	1	9050	378	1	8884	359		
61381	26	56	11191	4.1	451	1952	9	11742	4.0	464	4	9848	414					
						1953	16	10938	4.1	446	8	10768	437	7	9989	405		
						1954	10	11289	4.1	459	5	9604	386	3	9923	395		
						1955	8	11410	4.0	450	4	11008	431	3	10260	409		
						1956	5	11800	4.3	504	3	11593	455	2	8562	362		
						1957	2	11150	4.0	440	1	8930	436	1	11652	489		
						1958	4	11643	4.1	470	2	7850	322	2	9756	408		
						1959	1	11160	4.4	475	1	11700	494	1	10813	435		
						1960	1	12600	4.0	505	1	10270	424					
61485	1	2	10570	3.7	386	1949	1	9520	3.6	341								
						1950	1	11620	3.7	431								
61560	6	11	9206	4.6	419	1952	1	6540	4.0	255								
						1953	1	9360	4.1	385								
						1954	1	5610	4.2	233								
						1955	1	7300	4.9	355								
						1956	1	11160	4.1	456	1	9830	400					
						1958	3	10927	4.5	494	1	8780	367	1	9134	379		
						1959	3	8930	4.0	422	1	6040	249	2	3679	328		
62228	1	4	6718	4.2	283	1956	1	6810	4.2	289	1	13090	560	1	10965	459		
						1957	1	8260	4.2	346								
						1958	1	7200	4.4	314	1	7710	356	1	9810	427		
						1959	1	4600	4.0	184	1	6750	278	1	8491	363		
62573	5	16	10398	3.9	404	1951	2	9200	4.0	362	1	8890	366					
						1952	3	8757	4.1	360	3	10063	398					
						1953	4	10145	4.0	402	3	9447	402	3	9112	362		
						1955	2	9425	3.8	356	2	8595	337	2	7892	376		
						1957	1	9870	3.7	370	1	8570	314	1	8993	352		
						1958	1	6640	3.5	231	1	7540	272	1	10279	395		
						1959	3	11653	3.8	447	2	11840	465	2	11140	438		
62622	2	2	10710	4.9	512	1951	1	9150	5.2	477								
						1958	1	12270	4.5	547								
63725	1	2	12610	4.0	496	1953	1	11260	4.0	448	1	9010	372	1	10268	426		
						1955	1	13960	3.9	544	1	12590	525	1	9854	414		
63813	6	19	9405	4.1	385	1947	1	9200	4.1	372								
						1948	1	8890	4.4	388								
						1950	2	11595	4.2	483	1	5770	293					
						1951	1	10510	4.1	428	1	8670	423					
						1952	3	10977	3.9	424	2	10850	457					
						1954	2	9015	3.9	351	2	10010	409					
						1955	2	6740	3.9	262	2	10590	432	2	9123	386		
						1956	2	9145	4.4	396	2	11635	488	2	10791	437		
						1957	1	9350	4.6	426	1	16480	671	1	12611	505		
						1958	4	9535	4.0	384	3	10477	422	3	9319	395		
						64188	1	3	8653	4.4	379	1952	1	8470	4.2	360	1	7250
1953	1	9800	4.4	433	1							8310	332	1	7870	310		

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.						
BROWN SWISS																						
64541	1	3	7833	4.4	347	1955	1	7690	4.5	345	1	8740	334		1	7892	326					
						1957	1	7090	4.4	315	1	8840	386	1	9418	391						
						1958	1	8600	4.0	348	1	9690	439	1	8251	361						
						1959	1	7810	4.8	379	1	7410	310	1	9625	404						
64656	21	39	10241	4.3	428	1952	4	9218	4.3	392	4	8450	354									
						1953	6	10982	4.2	459	6	9905	417	5	9306	384						
						1954	7	9816	4.4	424	7	10270	425	6	8161	348						
						1955	6	10808	4.3	460	6	11547	480	3	9908	425						
						1956	5	10904	4.1	426	3	10767	444	3	10497	430						
						1957	3	12027	3.9	466	2	12735	533	3	11187	460						
						1958	4	12095	4.1	464	2	12225	450	1	13712	560						
						1959	4	11070	4.1	443	4	10390	444	2	11195	447						
64773	5	9	9903	4.4	430	1957	2	9115	4.6	422	2	7635	337	2	9418	391						
						1958	3	8963	4.7	421	3	9527	417	3	8251	361						
						1959	3	10143	4.4	441	2	11350	475	1	9625	404						
						1960	1	16140	3.1	497	1	10760	451	1	8905	387						
64837	5	5	10442	4.3	443	1954	1	8040	4.4	351												
						1956	1	9810	4.5	441												
						1958	1	10740	4.3	462												
						1959	1	10820	3.7	399	1	10250	426	1	10224	413						
1960	1	12800	4.4	565	1	12420	479	1	13026	500												
64879	86	196	10434	4.0	414	1951	3	9373	4.2	387	1	8810	364									
						1952	10	10250	4.0	406	5	10532	435									
						1953	24	10512	4.1	429	15	10653	436	16	9162	364						
						1954	30	10678	4.0	429	22	10298	419	12	9206	376						
						1955	28	10538	4.0	421	19	10473	419	16	9508	367						
						1956	23	10997	4.0	434	21	10131	406	19	10162	401						
						1957	13	9764	3.9	383	14	9856	384	13	9897	393						
						1958	30	10747	3.9	416	17	10576	412	15	9828	443						
						1959	25	11174	4.0	447	19	10870	440	19	10084	427						
						1960	5	9058	3.8	341	5	9628	396	4	8993	366						
						65735	11	14	12264	3.8	466	1956	1	7760	4.0	310	1	9570	400	1	8720	347
												1957	1	10800	3.9	416	1	8570	387	1	9657	395
1958	7	13916	3.8	529	4							10763	439	4	11072	459						
1959	5	12236	3.7	454	5							10728	423	4	9954	395						
66101	1	2	9410	4.5	426	1958	2	9410	4.5	426	1	11350	501									
66318	3	6	11686	4.1	476	1954	1	11490	4.2	481	1	10220	400	1	11238	456						
						1956	1	10190	3.9	400	1	10140	402									
						1957	1	12620	3.9	467	1	11680	470	1	10737	423						
						1959	2	11570	4.1	462	1	11070	426	1	10911	439						
1960	1	13750	4.5	585	1	11310	468															
66934	1	1	10040	3.8	380	1954	1	10040	3.8	380												
67060	3	9	9353	4.4	404	1949	1	10530	4.0	419												
						1950	2	9855	4.6	439	1	10410	485									
						1951	2	9005	4.8	417	1	10930	466									
						1952	2	8180	5.0	402	1	10780	457									
1953	2	8015	4.2	331	1	10200	427															
67525	4	4	8203	4.1	329	1954	1	7140	4.5	318	1	11150	516									
						1959	3	8557	3.9	332	2	7935	343	2	9625	404						
68741	1	1	13460	3.7	492	1956	1	13460	3.7	492	1	9120	339									
70012	1	3	12013	4.2	503	1958	2	11620	4.2	488												
						1959	1	12800	4.2	533												
70221	4	4	8915	4.6	396	1955	1	4620	5.2	241	1	9770	373									
						1956	1	9050	4.5	406	1	8710	355									
						1959	1	9720	4.3	421	1	11550	446	1	10442	393						
						1960	1	12270	4.2	514												
70409	5	13	10528	4.0	424	1956	1	9030	3.6	329												
						1957	4	11140	3.9	439	1	10680	422									
						1958	6	11880	4.1	487	1	11860	507									
						1959	1	8720	4.5	376	1	11290	448	1	11031	445						
1960	1	11090	3.9	428	1	10510	428	1	11979	504												
70627	79	144	11051	4.2	462	1956	11	12174	4.1	496	9	11659	474	8	10565	426						
						1957	20	11062	4.1	455	10	10893	448	9	11291	444						
						1958	44	10764	4.3	457	19	10527	430	19	8207	414						
						1959	54	11289	4.2	470	42	10620	436	38	9675	425						
1960	15	10575	4.2	444	12	10518	434	8	10404	429												
70757	1	1	10740	4.5	484	1954	1	10740	4.5	484	1	8930	365	1	10758	431						
71005	3	7	10658	3.8	403	1952	1	10350	3.9	405	1	13720	462									
						1953	1	12370	3.8	469												
						1954	3	9797	3.6	375												
						1957	1	13720	3.5	482	1	9480	378									
1958	1	9610	3.6	349																		
71090	6	15	9731	4.1	387	1951	4	8168	4.5	353	1	8430	345									
						1952	5	8518	4.5	358	2	10300	421									
						1953	2	9285	4.1	383	2	10130	408	2	10088	416						

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						BROWN SWISS										
						1954	2	8715	3.9	335	2	10390	409	2	8578	363
						1955	1	8670	3.8	333	1	11390	446	1	9145	375
						1959	1	15220	3.4	514	1	10010	391	1	9690	380
71475	12	30	8957	4.4	391	1949	1	7820	4.1	320						
						1950	5	9814	4.4	439	1	13770	554			
						1951	8	9914	4.4	439	2	10435	426			
						1952	7	9399	4.6	431	3	10190	426			
						1953	5	9052	4.2	385	3	8887	358	4	9818	397
						1954	3	9713	4.5	435	2	7920	319	1	7085	294
						1955	1	7230	4.6	336	1	8160	319	1	7892	326
71762	2	3	8095	4.1	331	1958	1	9590	4.1	397	1	10070	401	1	9788	387
						1959	2	6600	4.0	265						
71763	1	1	9780	4.1	403	1958	1	9780	4.1	403						
71866	1	1	8740	4.2	369	1956	1	8740	4.2	369				1	8448	340
71920	3	6	8865	4.4	388	1953	3	8940	4.4	394	3	10187	419	1	12154	476
						1954	1	8570	4.6	392	1	11510	494	1	9341	400
						1955	2	8500	4.4	370	2	9775	386	2	10486	427
72126	10	17	10214	4.4	441	1956	3	11163	4.1	459	3	10587	454	3	10290	441
						1957	6	9982	4.5	442	4	9820	402	4	8876	372
						1958	5	10968	4.3	464	2	12330	470	1	10202	416
						1959	2	9225	4.5	409	2	9040	383	1	9429	403
						1960	1	10830	4.7	504	1	10960	495	1	10660	451
72394	2	4	9050	4.2	374	1957	1	9870	3.8	374						
						1958	2	6850	4.6	315	1	9970	361			
						1959	1	10990	4.5	490	1	10000	383	1	10747	411
72896	2	4	10470	4.0	410	1954	1	11840	4.2	497						
						1955	1	11140	3.5	392						
						1959	2	9450	4.0	374	1	9180	359			
72898	2	4	8774	4.2	373	1958	2	9590	4.8	461	1	9790	420	1	9875	390
						1959	2	8450	4.3	362	2	11460	475	2	10519	438
73128	19	52	9398	4.1	387	1950	1	11070	4.1	457						
						1951	8	9891	4.1	406	3	9633	413			
						1952	10	10117	4.2	419	6	10802	441			
						1953	10	9821	4.2	416	4	10343	416	5	9740	396
						1954	8	9666	4.2	404	4	9545	379	2	9091	373
						1955	6	8628	4.2	360	5	9960	387	4	8396	342
						1956	5	8758	4.3	376	4	9710	373	4	9565	376
						1958	1	13090	4.0	521						
						1959	3	9903	4.1	414	1	13160	511	1	10813	435
73423	16	24	11920	3.9	461	1952	3	12707	4.2	528	2	11305	449			
						1953	3	12133	4.2	511	3	10463	436	3	11249	439
						1954	1	12270	3.4	411	1	13750	518			
						1955	3	12170	3.9	479	3	12573	474	3	10947	436
						1956	6	10813	4.2	448	6	11840	470	3	10497	406
						1957	2	12700	3.9	491	1	13700	560	2	10884	460
						1958	3	17913	3.6	643	2	11435	461	2	9919	407
						1959	3	8200	3.2	282	2	9930	397	2	10219	412
75432	71	121	11645	4.1	473	1955	4	13403	4.1	542	2	8940	373	2	9625	411
						1956	10	11754	4.1	478	5	11024	453	7	10802	442
						1957	10	11970	4.0	479	6	10210	410	3	10232	410
						1958	32	11852	4.1	479	15	10703	446	12	8856	428
						1959	53	11907	4.1	492	42	11363	464	42	9461	452
						1960	12	12027	4.1	485	11	10368	415	9	11575	471
76059	2	3	8505	4.2	357	1959	2	8040	4.2	334	1	8510	321			
						1960	1	8970	4.2	379	1	10470	431			
76903	1	3	7953	4.0	316	1951	1	8550	4.1	347	1	10580	423			
						1953	1	8550	3.9	336	1	11810	495	1	9941	409
						1954	1	6760	3.9	266	1	10890	450	1	11238	456
77319	2	2	6895	4.2	285	1960	2	6895	4.2	285				2	11723	483
77775	7	8	11588	4.0	464	1959	3	9977	4.1	410	3	8227	342	2	5864	249
						1960	5	11612	4.0	464	5	10032	403	4	8954	378
78152	1	2	10220	4.2	424	1956	1	11770	4.1	481	1	10400	418			
						1957	1	8670	4.2	366	1	9010	375	1	8884	359
78960	6	10	10786	3.8	409	1959	7	11716	3.9	449	5	11870	445	4	10442	398
						1960	3	9330	3.9	360	3	9517	370	3	10522	394
79828	8	13	11553	4.0	455	1954	2	11420	4.4	499	1	12130	497			
						1955	3	11787	3.9	454	3	12343	495	3	9465	383
						1956	6	11305	3.8	427	6	12628	520	3	9712	398
						1957	1	11520	3.8	443				1	11358	460
						1959	1	13830	3.9	343	1	9660	387	1	9690	380

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
BROWN SWISS																	
B0699	3	6	9752	3.9	379	1957	1	8810	4.0	356	1	10170	389	1	9320	353	
						1958	3	9540	3.6	349	2	9675	382	2	9783	373	
						1959	2	10540	4.1	436	1	10100	414	1	10279	407	
B1652	2	2	9555	3.9	377	1957	1	9260	3.7	339	1	11910	501	1	11903	495	
						1959	1	9850	4.1	407	1	11450	442	1	12230	509	
B2405	4	5	10961	4.0	435	1957	2	9020	4.1	364	1	11850	485	2	8818	355	
						1958	1	13860	3.8	528							
						1959	2	12995	3.9	507	1	11870	486	1	10813	435	
B2516	65	140	11400	4.1	463	1955	10	11250	4.1	449	7	11050	450	2	11178	465	
						1956	15	12377	4.2	511	11	11326	460	10	11641	447	
						1957	17	10694	4.1	440	10	10802	434	6	10895	436	
						1958	41	11681	4.1	477	19	10943	444	15	9032	448	
						1959	46	11323	4.1	458	37	10835	439	42	9407	429	
						1960	11	10753	4.0	429	11	11058	432	10	10535	419	
B4812	41	70	10237	4.1	421	1953	9	9548	4.3	409	5	10028	421	4	9998	403	
						1954	11	10408	4.2	439	5	10822	459	5	11140	454	
						1955	10	11234	4.2	467	9	11374	461	9	11005	447	
						1956	6	11083	4.0	447	3	12837	505	5	12298	496	
						1957	8	8596	4.3	368	4	12498	485	1	11489	467	
						1958	13	9541	4.0	386	6	11100	437	2	9919	401	
						1959	9	11102	4.1	440	6	11142	460	5	9202	459	
						1960	4	11478	4.2	478	3	10967	450	4	11685	473	
B4963	1	2	8190	3.9	316	1956	1	8460	3.9	330	1	10390	412				
						1957	1	7920	3.8	301	1	11090	428	1	10737	423	
B5003	4	15	9761	4.1	397	1952	1	13940	4.3	598	1	10260	452				
						1954	1	10970	4.4	484	1	10580	413				
						1955	1	9150	4.2	386	1	9110	380	1	9919	401	
						1956	3	11160	4.2	466	3	10500	422	1	8775	364	
						1957	4	8315	4.1	335	3	11267	444	3	10388	420	
						1958	1	11760	3.7	440	1	12460	484	1	10846	431	
						1959	3	8723	3.8	336	2	8585	340				
						1960	1	9990	3.9	385	1	11090	415				
B5031	4	11	12453	3.9	482	1958	7	13933	3.8	535	2	12940	471				
						1960	4	11220	3.8	424	3	9700	371	4	10941	407	
B5201	11	19	9923	4.1	403	1956	4	9810	4.1	395	4	10835	455	3	8662	345	
						1957	3	8943	4.0	358	1	14290	571	1	11358	460	
						1958	7	9290	4.0	370	5	10946	437	5	10174	403	
						1959	3	10710	4.0	426	3	12840	529	3	11449	462	
						1960	2	10625	4.1	446	2	7080	269	2	8785	367	
B5637	1	2	10565	4.0	423	1956	1	9700	3.9	378	1	9030	394				
						1957	1	11430	4.1	467	1	10760	428	1	8230	360	
B7630	4	10	9717	4.2	403	1954	2	11180	3.9	431	1	9370	379				
						1955	2	10495	4.1	430	1	8710	356	1	9919	401	
						1956	1	9040	3.7	336	1	12370	523				
						1957	1	10780	3.8	414	1	9690	397	1	9690	415	
						1958	3	8983	4.6	412	1	7510	313	1	7990	348	
						1960	1	8110	3.8	308	1	9250	382	1	5276	225	
B8895	26	51	12052	3.8	457	1956	1	13880	3.6	498	1	11390	446				
						1957	6	11232	3.7	418	4	10760	427	2	11483	473	
						1958	18	12483	3.8	468	5	11724	465	7	9630	447	
						1959	19	11602	3.8	446	13	10615	437	14	9683	473	
						1960	7	13416	4.0	532	6	10858	433	5	10540	456	
B8940	1	1	12720	3.8	485	1957	1	12720	3.8	485	1	13420	517	1	12001	490	
B9612	1	6	8580	4.5	386	1952	1	8370	4.7	395	1	9090	362				
						1953	1	9270	4.5	421	1	9750	393	1	8131	328	
						1954	1	7970	4.6	368	1	9350	347				
						1955	1	8350	4.5	376	1	8530	366	1	8687	341	
						1956	1	8770	4.4	388	1	8530	361	1	8535	338	
						1958	1	8750	4.2	368	1	8550	341	1	7739	318	
90848	62	112	10493	4.3	451	1954	1	9120	4.2	387							
						1955	6	9973	4.4	442	1	9230	344	1	8687	341	
						1956	3	9187	4.9	448	2	10590	414	2	11118	445	
						1957	24	9858	4.2	408	11	10417	418	7	9894	391	
						1958	36	11070	4.3	472	15	10591	435	16	8565	415	
						1959	30	10451	4.4	455	22	10920	445	21	8993	417	
						1960	12	10164	4.2	433	10	10623	441	10	10472	435	
91234	6	10	9695	4.1	394	1958	2	13750	4.0	553	1	12460	487	1	11543	482	
						1959	5	10640	3.9	413	3	11133	440				
						1960	3	7647	4.3	326	3	8037	319	2	11549	461	
91856	6	9	10878	4.1	448	1958	5	11312	4.1	481	3	11313	445	2	11244	470	
						1959	4	10350	4.1	420	4	11090	447	4	10900	431	
92957	4	5	9433	4.4	407	1959	4	6943	4.3	296	3	10333	424	3	11173	456	
						1960	1	14660	4.5	662	1	11410	457	1	12023	516	
94307	17	35	11880	4.0	479	1954	2	8990	4.0	355	1	8060	413	1	9647	397	
						1955	7	12159	4.3	518	6	11320	472	5	10896	443	
						1956	6	11457	4.2	480	5	11720	481	4	10829	447	
						1957	4	11653	3.9	461	4	11635	463	3	11594	465	
						1958	5	12110	4.3	521	3	9880	392	2	10551	424	
						1959	9	12240	3.8	461	6	11403	448	5	11042	442	
						1960	2	11500	3.9	444	2	10545	395	2	11064	422	



TABLE 15.--DAUGHTER-AVERAGE OF SIRS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LBS.	TEST PCT.	FAT LBS.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
BROWN SWISS																	
94606	3	7	9599	3.9	373	1955	1	11750	4.0	466	1	8340	335		1	8687	341
						1956	1	10180	4.3	436	1	8370	356	1	8535	338	
						1957	1	6200	4.0	249	1	10960	407	1	8818	341	
						1959	4	8760	3.9	341	3	10020	384	4	8319	402	
94773	2	2	4915	4.1	198	1959	1	2770	4.1	114	1	10750	417	1	10965	413	
						1960	1	7060	4.0	282							
95707	6	6	10977	3.9	429	1955	1	12090	4.0	481							
						1957	2	12640	3.9	488	1	10660	419				
						1959	1	10110	3.7	378	1	12650	508	1	11140	438	
						1960	2	9190	3.9	371	2	9225	387				
95997	3	6	10726	3.6	384	1958	2	13100	3.5	459	1	12650	475				
						1959	2	13720	3.5	482	1	12650	475	1	10442	398	
						1960	2	6375	3.4	224	2	11075	422	2	10835	397	
96003	8	14	10050	4.2	417	1955	1	12110	4.2	506	1	9910	415	1	9123	386	
						1956	3	10150	4.3	412	2	9720	417	1	8873	365	
						1957	5	10950	4.3	475	3	10453	434	4	9748	410	
						1958	4	8735	4.1	354	4	11133	445	4	10066	412	
						1959	1	12790	4.3	545							
96076	2	2	14665	3.9	560	1958	1	16500	3.7	606	1	12610	467				
						1959	1	12830	4.0	513	1	13010	506	1	12491	514	
96441	1	1	7240	4.9	354	1959	1	7240	4.9	354	1	8120	349	1	8796	378	
97881	12	21	9558	4.6	432	1955	1	12430	4.1	512	1	11110	481	1	10028	441	
						1956	4	11640	4.3	505	4	10218	435	4	9279	386	
						1957	2	10115	4.6	467	1	10570	424	1	8807	363	
						1958	8	9841	4.6	442	4	11073	429	5	16161	410	
						1959	4	7810	4.6	374	4	10343	390	4	9786	382	
						1960	2	10515	4.7	488	2	10340	432	1	10540	450	
99251	18	30	10635	4.1	435	1956	2	11755	4.3	512	1	10420	440	1	9527	411	
						1957	9	10050	4.3	427	5	9916	427	6	9365	397	
						1958	10	10832	3.9	428	6	9808	399	6	9027	361	
						1959	6	11922	4.1	484	6	11340	463	5	10133	412	
						1960	3	10147	3.9	408	3	7107	272	2	9069	353	
99308	6	8	9782	4.2	411	1959	4	11133	4.2	469	1	8910	370				
						1960	4	9440	4.2	394	3	9407	401	4	10464	449	
99438	9	15	8906	4.0	357	1956	1	12900	4.1	534	1	11340	432				
						1958	5	9860	4.0	393	3	11037	449	3	11260	462	
						1959	4	9320	3.9	363	3	10777	417	4	8911	432	
						1960	5	8092	3.9	316	3	8007	329	3	11234	443	
99988	9	11	10497	4.0	426	1957	1	17490	4.0	699	1	13340	524	1	13680	566	
						1959	9	9602	3.9	391	7	13337	553	2	14159	618	
						1960	1	7850	3.8	297							
100513	4	6	9026	4.1	368	1958	4	7495	4.0	295	2	9125	391	2	10987	440	
						1959	2	10560	4.2	440	2	12010	463	1	10965	415	
102187	6	13	10120	4.3	431	1956	2	11090	4.1	452	2	11285	463				
						1957	2	11800	4.2	495	2	10545	414	2	10737	423	
						1958	1	11180	4.5	505							
						1959	7	9387	4.2	397	4	11488	443	4	10911	439	
						1960	1	10020	4.8	476	1	11970	485				
102954	1	1	16430	4.0	653	1958	1	16430	4.0	653							
103450	5	6	9622	4.1	396	1958	2	10705	4.1	433	2	11610	449	2	9843	398	
						1959	3	7123	4.0	287	2	10110	396	2	11113	440	
						1960	1	12060	4.2	502				1	10835	449	
103920	8	12	9618	4.1	390	1957	1	9830	5.1	501							
						1958	2	5930	4.3	252	1	11130	417				
						1959	7	10629	4.1	436	6	10330	419	5	9871	401	
						1960	2	7410	3.8	288	2	6715	264	1	10464	414	
106065	1	1	14190	4.0	563	1959	1	14190	4.0	563	1	9610	397	1	11347	446	
106901	1	1	10530	4.3	454	1960	1	10530	4.3	454	1	7500	291	1	9799	402	
107172	1	1	9120	4.0	363	1959	1	9120	4.0	363	1	11430	387	1	11325	446	
107380	1	1	10470	4.1	432	1959	1	10470	4.1	432	1	10340	453	1	11249	495	
108074	5	5	11096	4.0	443	1959	2	8585	3.9	334	1	10280	398	1	9690	380	
						1960	3	12770	4.1	517	3	13640	547				
108913	7	9	10198	4.0	410	1956	1	7690	4.4	342							
						1958	2	11910	4.5	536	1	11830	493				
						1959	5	11574	4.0	457	4	10623	432	4	11034	453	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						1960	BROWN SWISS									
							1	5290	3.9	209	1	9990	372		1	9875 390
109762	1	1	9010	4.5	407	1958	1	9010	4.5	407						
113180	1	3	8043	4.5	357	1957	2	8940	4.3	386	1	8940	386			
						1959	1	6250	4.8	300	1	7960	347		1	5210 219
113551	49	69	9156	4.2	388	1958	16	9262	4.3	399	8	10719	437			
						1959	36	10049	4.2	419	30	10563	417		29	9588 411
						1960	17	8613	4.2	369	14	10441	411		13	10846 437
114128	1	1	13870	3.9	546	1959	1	13870	3.9	546	1	9890	414	1	10148	428
114989	1	1	7150	4.4	317	1959	1	7150	4.4	317	1	10130	419	1	9952	423
116055	1	1	7260	4.0	288	1957	1	7260	4.0	288						
116729	1	1	9890	4.4	438	1959	1	9890	4.4	438	1	10220	423	1	10148	428
116807	4	4	8888	4.5	398	1959	2	8905	4.5	398	2	9175	378			
						1960	2	8870	4.5	397	1	9400	380	1	9058 383	
117125	4	9	8674	4.3	369	1958	4	7775	4.4	340	2	9190	359	1	11292	448
						1959	3	9710	4.2	409	2	10130	393			
						1960	2	9160	4.4	403	1	11560	448			
117775	8	9	8201	4.3	359	1958	1	6190	4.3	266	1	8150	331	1	7369 290	
						1959	7	8604	4.3	378	6	9555	407	5	8338 344	
						1960	1	5820	4.0	230	1	5540	266	1	5908 250	
118142	1	2	12570	4.7	581	1958	1	13440	4.7	626						
						1959	1	11700	4.6	536						
119330	2	2	7775	3.9	308	1960	2	7775	3.9	308	2	8075	333	2	10066	405
120226	1	1	5410	4.5	244	1960	1	5410	4.5	244	1	5800	230			
122787	1	1	7570	4.1	310	1960	1	7570	4.1	310				1	12448	507
123323	1	1	11430	3.4	387	1959	1	11430	3.4	387	1	9120	363	1	11325	446

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	TEMP. FAT LB.	AV. RECORDS NO.	YEARLY MILK LB.	HERO FAT LB.	AVERAGE
M. SHORTHORN																	
4534	1	1	4300	4.0	172	1957	1	4300	4.0	172	1	12990	484		1	7423	281
6491	1	1	4900	3.9	192	1953	1	4900	3.9	192							
11585	8	12	8548	3.7	313	1954	1	11340	3.6	410							
						1955	1	9410	3.5	329							
						1956	2	9040	3.5	316	1	7940	275		1	6551	253
						1957	2	8125	3.9	310	1	5320	241		1	7576	232
						1958	3	7900	4.0	311	2	8900	349				
1959	3	8850	3.5	307	3	8957	336		2	10442	392						
16969	13	19	7832	3.9	304	1953	3	7647	3.8	287	2	8700	328		3	7488	278
						1955	3	8340	4.1	336	2	7370	282		2	7630	293
						1956	4	8530	3.8	312	3	7140	270		3	6693	260
						1957	3	6770	4.0	271	3	6093	242		3	7053	271
						1958	3	7307	4.0	287	2	7675	280		2	7169	271
1959	3	7620	3.7	282	2	7745	295		2	7712	318						
17791	5	9	8034	4.2	338	1954	1	7050	3.9	274							
						1955	2	8475	4.4	381							
						1956	1	8110	4.6	375							
						1957	1	7460	4.6	340							
						1958	1	7640	4.3	329	1	7680	283		1	7009	270
1959	3	8150	4.1	331	3	7820	299		2	7815	298						
17915	4	5	7335	3.9	287	1957	1	4950	4.1	204	1	7730	287		1	7750	288
						1958	1	9560	4.1	389							
						1959	3	7090	3.7	264	1	9490	349				
20308	2	4	6948	3.9	265	1955	2	6790	4.0	270	2	7230	272		2	6573	262
						1956	2	7105	3.7	260	2	7990	303		2	6911	254
23073	8	11	8772	3.9	337	1952	1	6660	3.8	251							
						1953	3	9347	3.7	345	3	8130	321		2	6311	249
						1954	3	10260	4.0	410	3	9057	378		1	6736	246
						1955	1	10180	3.5	359							
						1956	1	7670	4.2	322	1	9890	365				
						1957	1	8060	3.8	308							
1959	1	11310	3.8	434	1	9090	352		1	6834	284						
27712	1	2	7015	3.8	267	1956	1	7090	3.8	270	1	8120	301		1	7717	281
						1957	1	6940	3.8	264	1	9100	347		1	7750	288
28346	3	7	7809	3.9	306	1953	1	6850	4.1	282	1	6790	240		1	5788	213
						1954	1	9330	3.7	348	1	7980	302				
						1955	1	8180	4.0	330	1	3840	160				
						1956	1	6550	4.1	267	1	9920	400				
						1957	1	6320	3.8	242	1	8250	325		1	7706	307
						1958	1	6730	4.0	267	1	7150	292		1	7150	292
1959	1	8460	3.9	329	1	7090	282		1	8709	354						
30545	2	2	8325	3.6	301	1958	1	6680	3.6	238	1	6520	250		1	7368	271
						1959	1	9970	3.6	364	1	9330	344				
34116	1	3	7247	3.9	286	1953	1	9020	4.1	374	1	7890	328		1	7554	278
						1954	1	6870	3.8	259	1	7620	290		1	7096	283
						1955	1	5850	3.8	224	1	8170	312		1	6573	262
39454	1	1	11260	4.1	463	1957	1	11260	4.1	463	1	8960	393		1	5243	213
44950	6	9	7136	3.6	251	1956	1	7270	3.2	231	1	10590	421				
						1957	3	6493	3.9	252	2	10140	374		2	8175	310
						1958	3	7610	3.4	259	2	14370	526		2	8666	329
						1959	1	9520	3.6	342							
						1960	1	8170	3.4	281	1	12640	516				
46431	1	1	7180	4.0	284	1957	1	7180	4.0	284	1	9190	385		1	8698	355
47947	1	1	4980	3.9	196	1953	1	4980	3.9	196							
48787	1	1	7070	3.9	276	1960	1	7070	3.9	276	1	10720	392				
51888	3	3	7300	3.4	250	1956	2	6510	3.5	229	2	10465	382		2	7450	274
						1959	1	8880	3.3	293	1	9740	346		1	10617	387
55946	7	8	8569	4.0	338	1956	4	8628	3.9	335	4	9545	346		1	7903	289
						1957	3	9443	4.0	377	2	10360	372		1	8175	310
						1959	1	5960	4.2	249	1	5550	201		1	6769	249
70728	1	2	7200	3.6	262	1959	2	7200	3.6	262	1	9320	353		2	5434	389
71897	1	3	6340	3.7	234	1952	1	7910	3.6	284	1	9610	381				
						1953	1	6920	3.7	260	1	10870	405		1	6813	255
						1954	1	4190	3.8	158	1	9000	340				
78749	2	5	9387	4.0	376	1954	1	8100	4.4	356	1	7990	330		1	7096	283
						1955	1	7610	4.1	312	1	8000	304		1	6573	262
						1956	1	8720	3.9	343	1	9220	334		1	6911	254
						1957	1	7380	3.9	289	1	9140	357		1	7423	281
						1959	1	10820	3.9	427	1	7980	324		1	9309	365
83260	4	9	11167	3.8	419	1956	4	12030	3.8	456	4	9350	357		4	6780	256

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
						M. SHORTHORN										
						1957	2	10150	3.6	360	2	8515	328	2	7695	292
						1958	2	9715	3.7	354						
						1959	1	9410	3.9	366	1	6470	230	1	8328	319
84864	1	1	6880	3.8	264	1959	1	6880	3.8	264	1	8560	318			
85254	1	1	7740	4.0	310	1959	1	7740	4.0	310	1	8010	296	1	7815	293
87134	4	4	7440	3.8	283	1957	2	6940	3.7	253	2	7620	305	2	6987	270
						1959	2	7940	4.0	313	2	8450	319	1	9614	371
90821	1	1	8530	4.0	331	1960	1	8330	4.0	331	1	9400	372	1	7990	304
92492	1	1	8510	3.8	327	1959	1	8510	3.8	327	1	9530	349			
94856	1	1	10070	4.2	422	1959	1	10070	4.2	422	1	8520	330	1	8971	339
106779	1	1	7010	3.3	234	1954	1	7010	3.3	234	1	8200	309			
109520	1	1	8730	4.1	355	1956	1	8730	4.1	355						
111053	1	1	10990	3.6	396	1959	1	10990	3.6	396						
119789	4	4	6733	3.8	248	1956	3	6827	3.6	241	3	9653	357			
						1957	1	6450	4.2	269						
121506	1	1	6430	4.1	261	1958	1	6430	4.1	261	1	10650	399	1	8795	330
128075	4	5	11381	3.9	453	1957	1	6450	4.2	271	1	9440	376	1	7695	292
						1958	1	7760	4.1	319	1	9420	341	1	8197	308
						1959	1	7100	4.0	285	1	9510	363	1	9614	371
						1960	2	15660	3.7	617	1	6700	271	2	8633	334
155214	1	2	8990	3.6	322	1959	1	11580	3.6	421	1	8670	328			
						1960	1	6400	3.5	223	1	4850	188	1	9330	344
187649	1	1	8780	3.7	322	1959	1	8780	3.7	322	1	10090	371	1	8993	334
190439	1	2	10190	4.0	405	1959	2	10190	4.0	405	1	8660	321			
215779	1	1	10270	3.1	323	1959	1	10270	3.1	323	1	9380	349			
227482	1	1	5770	4.0	229	1960	1	5770	4.0	229	1	5060	186			
1943617	3	5	7492	3.8	297	1950	1	8220	4.3	351						
						1951	2	6685	3.8	262						
						1952	1	8150	4.1	331						
						1956	1	9430	4.1	386	1	13220	536			
2023142	3	6	5602	4.0	224	1951	3	6200	4.2	258	1	7460	310			
						1952	1	3890	4.0	155	1	7680	284			
						1953	2	6025	3.9	230	1	7960	315	1	5603	221
2031115	1	1	5340	3.5	186	1951	1	5340	3.5	186						
2036764	1	1	7200	3.6	259	1947	1	7200	3.6	259						
2061092	1	2	7220	3.4	248	1949	1	8560	3.4	293						
						1950	1	5880	3.4	202						
2079274	2	7	9299	3.8	351	1950	1	9200	4.1	381						
						1951	2	10420	3.7	384						
						1952	1	10370	4.1	421	1	7920	350			
						1953	1	12590	3.5	445				1	6813	255
						1954	1	8000	3.2	256	1	10340	383			
						1955	1	9860	3.7	368	1	12300	430	1	10224	393
2084694	1	1	8560	3.6	306	1955	1	8560	3.6	306	1	10740	396			
2118785	7	14	8333	3.9	321	1950	3	9743	3.8	372						
						1951	1	6490	4.3	282						
						1952	1	9610	4.0	361	1	7910	284			
						1953	2	10095	3.9	394	2	6865	256	1	6813	255
						1954	4	8665	3.9	354	4	9095	363	2	5990	230
						1955	1	4510	3.8	170	1	3640	130	1	6998	267
						1956	2	7450	3.8	281	2	6820	259	1	5058	193
2120268	1	1	5850	3.7	217	1951	1	5850	3.7	217						
2178358	11	30	8586	3.6	309	1949	1	8640	3.9	333						
						1950	3	9640	3.6	354	1	8640	328			
						1951	6	8543	3.7	321	3	9023	343			
						1952	8	8324	3.8	309	2	8675	330			
						1953	6	8047	3.5	286	4	9235	340	4	7468	278
						1954	5	8112	3.5	281	4	7368	298	4	7167	281
						1958	1	10200	3.4	345						
2283876	1	2	9500	3.9	366	1953	1	9260	3.9	357	1	8610	331	1	6813	255

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						1954	M. SHORTHORN	1	9740	3.9	375	1	7890	296		
2286255	2	4	7802	3.8	296	1951	2	8055	3.9	312						
						1952	1	7230	4.6	292						
						1953	1	6350	3.5	221						
						1950	1	6690	4.2	282						
2317922	1	2	7905	4.5	355	1951	1	9120	4.7	427						
2335246	1	1	9830	4.0	394	1950	1	9830	4.0	394						
2368331	8	13	6607	3.9	255	1952	2	7285	3.8	273						
						1953	2	5445	3.5	191	1	8170	334	1	7990	334
						1954	2	6785	3.7	254	2	8335	303	2	7570	214
						1955	2	6685	4.8	309	2	7435	277	1	7576	299
						1956	2	7690	3.7	285	2	7705	323	2	8012	319
						1957	2	6975	3.6	246	2	9765	380	2	8050	325
						1958	1	8460	3.4	290	1	12160	442	1	10508	421
2496158	2	3	7958	4.4	349	1957	2	7055	4.3	299	2	7295	273	2	6987	270
						1958	1	8860	4.5	378	1	7260	272	1	6922	257



TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIO S--GROUPED BY BREEO,  
BY YEAR OF FRESHENING--RECOROS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTEMP. AV. RECORDS NO. MILK LB. FAT LB.			YEARLY HERD AVERAGE RECORDS NO. MILK LB. FAT LB.			
AYRSHIRE																	
51943	1	1	9730	4.6	450	1952	1	9730	4.6	450							

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
GUERNSEY																	
219801	1	5	11270	4.6	518	1949	1	9220	4.9	447							
						1951	1	11030	4.3	469							
						1953	1	12370	4.8	600							
						1954	1	13170	4.7	616							
						1956	1	10560	4.3	458							
240189	1	1	5440	4.4	239	1952	1	5440	4.4	239							
240902	1	1	8790	4.3	378	1956	1	8790	4.3	378	1	13840	469		1	10813	427
252871	1	1	10200	4.8	491	1952	1	10200	4.8	491							
259387	1	1	5480	5.2	286	1948	1	5480	5.2	286							
270309	3	5	8248	5.1	423	1948	1	6970	5.3	369							
						1949	1	7020	5.1	360							
						1950	1	9700	4.9	478							
						1952	1	8960	5.3	471							
						1960	1	9180	5.1	469	1	9030	460				
285563	1	5	9368	4.8	446	1952	1	11430	4.7	536							
						1953	1	10790	5.0	542							
						1954	1	9100	4.9	442							
						1956	1	7900	4.5	356							
						1957	1	7620	4.7	355							
290210	4	10	8663	4.7	398	1947	2	9015	4.1	363							
						1948	1	10820	4.6	497							
						1949	2	9915	5.1	504							
						1950	3	9090	4.8	424							
						1951	1	7130	5.2	373							
						1952	1	6020	5.6	338							
290211	10	23	7906	4.9	386	1952	2	6950	4.7	326	1	7410	345				
						1953	4	8093	4.8	389	1	7560	355		1	7325	343
						1954	7	7914	5.1	401	7	9237	383		6	9205	392
						1955	4	8810	4.8	424	3	7560	349		3	8168	379
						1956	4	7213	4.9	348	4	8200	385		2	7734	360
						1957	1	9400	5.3	499	1	10590	523		1	8426	433
						1958	1	10490	5.0	525	1	12550	600		1	9734	484
296007	1	1	10570	3.9	414	1957	1	10570	3.9	414	1	10170	452		1	10987	491
302675	10	24	7301	4.9	355	1950	1	4490	5.4	242							
						1952	2	7905	5.1	397	2	8025	417		2	8382	417
						1953	4	7543	5.0	371	2	8705	456		1	9374	472
						1954	2	9775	4.6	452	1	8310	420		1	9374	472
						1955	6	7773	5.0	392	5	9906	443		4	8372	399
						1956	7	7484	4.8	356	6	9217	444		6	8420	404
						1957	1	8210	4.1	335	1	8060	400		1	8197	398
						1958	1	9460	3.8	361	1	8120	394		1	7826	377
303522	1	2	13045	4.3	553	1958	1	12920	4.3	551	1	8940	413				
						1959	1	13170	4.2	555	1	8940	398				
306647	3	8	5846	5.2	312	1950	2	6155	5.2	319	1	7450	347				
						1951	2	5455	5.4	303							
						1952	1	7140	5.9	424							
						1953	1	6840	5.5	374	1	8640	442		1	8382	417
						1954	1	6530	5.5	358	1	9550	468		1	9374	472
						1955	1	6790	5.2	352	1	8390	419		1	8873	441
310677	5	15	9852	4.4	433	1950	1	9130	3.9	356							
						1951	2	8870	4.6	406							
						1952	1	9390	3.9	367							
						1953	2	11055	4.4	480	1	8870	431				
						1954	2	11595	4.5	529	1	9290	441		1	10442	504
						1955	3	10027	4.3	429	1	10030	479		1	10737	495
						1956	1	13360	5.0	674	1	10360	481		1	10867	514
						1957	1	14170	4.9	692	1	10390	505		1	11292	543
						1958	1	12970	4.6	600	1	9460	357				
						1959	1	11280	4.7	530	1	12030	557				
310762	2	3	7320	5.2	379	1948	1	6590	5.2	346							
						1949	1	6290	5.7	355							
						1950	1	8200	4.9	406							
315130	2	4	5443	4.8	257	1954	2	5315	5.0	260	2	6200	303				
						1955	2	5570	4.6	254	2	5850	284		2	7292	355
317477	5	11	8341	4.8	401	1952	1	6900	5.5	377							
						1953	4	9343	4.9	456	2	10670	464		1	7794	390
						1954	1	7850	5.7	446	1	11460	466		1	8371	405
						1955	2	8245	4.6	379	2	8010	362		2	7625	348
						1956	1	7600	4.1	312	1	7740	356		1	6595	310
						1957	2	8060	4.5	356	2	9050	394		1	8382	404
319076	4	5	6424	5.1	332	1955	3	5143	5.0	268	1	8350	305		1	9254	421
						1956	1	10720	5.2	558	1	11410	546		1	10268	484
						1957	1	9810	5.0	491					1	9396	444
319210	5	8	8042	5.0	406	1947	1	6720	4.6	312							
						1948	1	9260	4.9	450							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	HERD AVERAGE FAT LB.
						GUERNSEY										
						1949	1	10590	5.8	618						
						1950	1	10260	5.1	522						
						1952	3	7563	5.1	384						
						1953	1	8310	4.8	401						
319761	17	34	8379	5.0	414	1952	2	10750	4.5	477	2	10820	495			
						1953	1	9710	5.0	489	1	8820	458	1	8676	455
						1954	8	7568	5.0	374	5	9284	460	3	9799	490
						1955	9	8700	5.0	433	9	9077	430	9	9028	426
						1956	6	7675	5.1	394	6	8843	418	6	8926	426
						1957	4	7770	4.9	375	4	9790	451	4	9058	427
						1958	2	10540	5.1	522	2	10815	522	1	9352	445
						1959	1	8920	5.4	486	1	9930	461	1	9309	436
						1960	1	7360	5.6	410	1	8210	406	1	9745	449
321668	1	2	9710	4.5	437	1959	2	9710	4.5	437	1	5560	276			
323554	1	1	5020	4.1	204	1956	1	5020	4.1	204	1	8270	370	1	7957	358
328852	3	4	8900	5.0	440	1955	1	8630	5.2	450	1	9800	499	1	10998	533
						1956	2	8670	5.3	454	2	11275	462	2	10186	435
						1957	1	10940	3.9	424	1	14010	542	1	11292	452
330167	6	12	7197	4.5	321	1953	2	7455	4.5	336						
						1955	4	7673	4.4	337	4	8103	378	3	8207	395
						1956	4	6760	4.4	297	3	5823	295			
						1957	2	9615	4.5	436	1	10250	518	1	8426	433
330925	50	114	7905	5.0	394	1950	1	9500	5.3	496						
						1951	11	7203	5.0	358	3	6520	329			
						1952	13	8350	4.9	405	7	9006	404			
						1953	14	8569	4.9	424	13	8618	408	12	8579	406
						1954	19	8753	5.0	436	18	8730	403	16	8817	415
						1955	22	7654	5.1	388	21	8590	390	21	8946	408
						1956	14	8286	4.8	399	14	8455	399	14	8484	402
						1957	13	7693	4.9	380	12	9008	424	11	8562	405
						1958	4	6963	4.9	438	4	9020	432	4	7745	390
						1959	3	8953	5.1	454	3	7730	389	3	8026	409
333200	1	4	8013	5.6	453	1955	1	8290	5.6	469	1	6800	333	1	6660	306
						1956	1	8430	5.9	494	1	8600	451	1	8186	398
						1957	1	8550	5.7	487	1	9010	480	1	8121	409
						1958	1	6780	5.3	360	1	7680	403	1	9080	465
334545	1	2	7885	5.4	420	1955	1	7430	5.4	401	1	6350	340			
						1956	1	8340	5.3	439						
338467	1	2	7250	5.5	389	1955	1	8600	4.9	417	1	7950	423			
						1956	1	5900	6.1	360	1	8390	437	1	7968	558
340028	14	40	8799	4.6	402	1950	1	7900	5.2	413						
						1952	6	8353	4.7	387	3	7077	330			
						1953	8	8951	4.7	417	4	8430	384	4	7826	384
						1954	10	9482	4.6	435	5	9684	431	7	8690	417
						1955	4	7885	4.6	365	2	6980	339	3	7935	384
						1956	5	9324	4.7	440	4	8550	427	4	7941	398
						1957	4	6670	4.8	319	3	8483	420	1	6987	356
						1958	2	7170	4.3	309				1	5439	266
341264	5	10	7683	5.0	387	1954	5	7330	5.3	387						
						1955	4	8043	4.9	394	2	8865	411	2	8197	395
						1956	1	7990	4.7	378	1	9040	415	1	7292	354
						1957	1	7810	5.3	411	1	8790	457	1	8557	441
						1958	1	7480	5.0	373						
342043	14	26	7585	5.3	399	1955	5	8324	5.4	443	5	8504	406	4	9570	438
						1956	6	8056	5.6	451	6	9618	477	4	8191	396
						1957	7	7674	5.1	395	6	10107	509	4	9431	442
						1958	4	7563	5.0	370	4	8598	436	4	8216	404
						1959	2	9245	5.2	482	2	8725	445	1	8600	378
346295	2	4	8109	5.0	409	1954	1	9790	5.1	499	1	8070	402	1	8666	419
						1955	1	8430	5.0	426	1	7710	366	1	7619	376
						1956	1	8950	5.0	448	1	9170	402	1	7903	360
						1957	1	7160	5.0	359	1	9000	397	1	9821	456
349837	5	7	7639	4.9	370	1950	1	6950	5.2	359						
						1951	1	8540	4.6	395						
						1952	1	8340	4.6	383						
						1953	1	5050	5.2	262						
						1955	2	7955	5.1	397	2	6920	346	2	11271	519
						1958	1	7230	4.4	315						
350645	1	1	6370	4.7	300	1951	1	6370	4.7	300						
354224	1	1	5500	6.0	329	1956	1	5500	6.0	329	1	7190	355			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
361476	1	1	5980	4.3	259	1956	1	5980	4.3	259						
363158	4	5	9028	4.9	444	1955 1956 1957	1 2 2	10620 7990 9045	5.2 4.8 4.7	553 384 426	1 2 2	10210 7960 7465	512 392 359	1 1 2	10998 7946 8846	533 369 419
365001	2	4	7790	5.5	428	1957 1958	2 2	7505 8075	5.4 5.5	409 447	2 2	8845 9055	435 441	2 2	8971 9216	433 455
367825	4	12	7629	5.0	378	1950 1951 1952 1953 1954 1955	1 3 4 2 1 1	9420 8060 7398 8060 6230 7340	5.0 5.2 5.0 4.8 4.5	470 416 369 385 278 330	1	7620	410	1 1 1	7794 8371 8284	390 405 370
367978	1	1	13390	5.1	685	1955	1	13390	5.1	685	1	10010	503	1	10998	533
371803	6	9	7288	5.2	377	1951 1952 1953 1955 1956	1 3 2 2 1	6880 6943 8035 6175 7280	5.5 5.1 5.1 5.3	379 355 410 319 366	2	7080	342	1 2 1	7586 7407 7957	377 340 358
371883	2	2	7895	4.8	373	1957	2	7895	4.8	373	2	9095	474	2	8252	407
372716	1	1	9710	4.6	449	1954	1	9710	4.6	449						
372762	3	4	6192	5.0	309	1953 1954	1 3	6210 6287	4.7 5.0	290 312						
373903	5	16	8243	4.6	377	1952 1953 1954 1955 1956 1957	1 3 3 4 4 1	10310 8410 8067 7935 8130 7030	4.6 4.6 4.6 4.4 4.5 5.0	473 389 368 349 366 350	1 1 2 3 1	8470 8690 8665 8090 8630	450 428 387 383 390	1 1 2 3 1	8382 9374 7374 7485 7336	417 472 341 359 359
377904	6	13	7457	4.7	351	1949 1951 1952 1953 1954 1955 1956	1 1 3 4 2 1 1	8380 7310 6940 6988 7790 8200 6510	5.0 3.8 4.8 5.0 4.5 4.5 4.8	415 280 329 345 348 372 315	2 2 2 2 1	8255 7895 8600 7430 7920	379 356 402 369 382	2 2 1 1	7805 8072 8077 7270	358 369 377 353
378495	10	19	7361	4.9	362	1950 1951 1952 1953 1954 1955 1956 1957 1958	3 2 5 3 1 1 2 2 1	6883 7740 8008 7937 6520 9340 7880 8350 4090	4.9 5.1 4.9 4.8 4.6 4.9 4.3 4.9 4.2	335 384 395 381 299 461 338 404 173	1 1 1 1 1 1 2 1	7550 6220 9060 7320 9070 8150 7365 8170	347 302 430 364 437 398 351 371	1 1 1 1 1 1 2 1	7085 8927 7085 8469 7881 6246	352 424 352 393 388 287
380562	2	3	8015	5.0	398	1954 1955 1956	1 1 1	7670 7950 8490	5.3 4.8 5.0	403 379 428	1	8380	400	1	7085	352
381264	2	9	7948	4.3	341	1952 1953 1954 1955 1956	2 2 2 2 1	8630 7890 7890 7595 7760	4.3 4.5 4.4 4.2 4.3	370 352 347 305 334	2 2 2 2 1	7230 7890 7970 7910 7670	340 368 382 382 378	2 2 2 2 1	7510 8159 8132 7270	358 390 383 353
381864	4	5	6146	5.2	318	1951 1952 1953	2 2 1	6540 6005 6330	5.1 5.3 5.0	334 316 319						
381865	54	124	7787	5.0	389	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	2 7 13 20 14 14 18 18 10 4 3 1	6465 8340 8272 8020 8224 7554 7648 8642 8447 7908 8170 9340	5.0 5.3 5.1 5.0 4.9 4.9 5.1 5.1 4.9 5.0 4.9 4.3	322 439 425 402 403 370 401 439 413 394 403 403	1 2 6 8 13 16 16 7 1 2 1	10130 8455 9492 9420 9090 9124 8717 9326 8010 9790 9410	460 410 460 456 412 441 405 443 360 432 474	6 11 15 15 7 3 2	9043 9329 8767 9093 7631 8513 9298	446 446 415 430 470 414 436
382589	4	6	8858	4.4	392	1951 1952 1953 1954 1955 1958	1 1 1 1 1 1	11670 4480 10100 9870 9070 9600	4.5 4.2 4.5 4.1 3.6 4.6	524 187 439 404 331 464						
382854	32	105	7836	5.1	396	1949 1950 1951 1952 1953 1954 1955	2 3 9 16 20 17 19	7740 7180 9151 7978 8025 7802 7216	5.6 5.2 5.0 5.1 5.0 5.1 5.0	433 375 457 410 400 396 361	1 2 6 12 15 18	8850 7490 8672 8950 8764 8095	436 367 428 437 422 387	9 14 17	8754 8970 8478	433 426 402

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.						
GUERNSEY																						
384112	39	94	7363	4.9	361	1956	9	8544	5.0	427	7	8787	404	6	8262	387						
						1957	7	8701	4.8	422	6	8357	399	4	8753	415						
						1958	3	10133	4.8	485	2	10665	526	2	9772	492						
						1950	6	7693	5.0	383												
						1951	15	7907	4.9	385	2	11415	454									
						1952	15	7784	4.9	379	7	9387	439									
						1953	16	7550	5.0	372	10	9513	434	10	8909	425						
						1954	12	7779	4.7	366	6	8756	399	8	9245	434						
						1955	15	7083	4.8	337	14	8296	390	15	8344	389						
						1956	6	7205	4.6	347	5	8792	415	5	8284	386						
385485	2	5	5458	4.8	266	1957	3	7430	5.0	371	2	7945	362	2	7936	375						
						1958	4	7178	5.2	372	2	8715	433	2	8377	423						
						1959	2	8170	5.0	416	2	8125	398	1	7270	354						
						1955	1	7920	5.3	416	1	9090	382	1	10497	383						
						1956	1	8460	5.7	486	1	9360	383	1	9941	379						
386975	2	2	8495	4.8	408	1957	1	7470	4.6	346	1	8530	370	1	9036	351						
						1958	1	5690	4.6	262	1	7970	323	1	9396	382						
						1959	1	3530	4.4	154	1	9500	549	1	8720	338						
						1957	2	8495	4.8	408	2	10825	483	2	9821	456						
399789	6	12	6801	4.9	333	1950	1	4360	4.1	179												
						1951	1	6030	4.9	298												
						1952	3	8690	4.9	425												
						1953	1	7960	5.8	462				1	8753	397						
						1954	2	7730	5.5	421	1	8260	388	1	8557	363						
						1955	2	6735	5.0	340	1	9110	425	2	7914	359						
						1956	1	5640	5.3	299				1	7499	343						
						1957	1	5090	5.0	255				1	7641	354						
						1957	1	7780	5.1	396	1	10860	481	1	9821	456						
400721	5	16	8637	5.1	446	1955	4	8970	5.3	472	2	6865	339									
						1956	5	8330	5.2	433	5	9768	403	5	8317	385						
						1957	4	8395	4.9	413	4	8200	338	4	9821	434						
						1958	1	7160	5.1	364	1	8880	384	1	9276	397						
						1959	2	8830	5.0	434	2	10680	423	2	10987	447						
403543	17	46	7680	5.0	379	1950	1	6220	4.7	295												
						1951	3	6180	5.0	308	1	5360	247									
						1952	4	7605	4.9	373												
						1953	6	6325	5.2	325	3	14063	548	2	8568	407						
						1954	11	7436	5.0	369	8	8729	351	6	7857	389						
						1955	11	7429	5.0	370	7	8296	394	8	8288	400						
						1956	6	8947	4.8	434	4	7808	376	5	8572	417						
						1957	2	6845	4.9	339	1	6900	340	2	7728	362						
						1958	1	8160	4.9	400	1	7440	363	1	7826	377						
						1959	1	10710	4.7	501	1	10850	580	1	9854	505						
						404877	22	50	8545	5.0	430	1953	3	7147	5.1	366	2	9080	457	2	8818	429
												1954	10	9021	4.9	441	6	8097	381	7	8834	405
												1955	9	7799	4.9	334	8	8248	403	8	8760	424
1956	8	8463	5.0	420	6							9142	409	6	8629	412						
1957	8	9535	5.1	482	5							9076	443	5	8899	432						
1958	8	9263	5.0	462	4							11608	537	3	7815	408						
1959	3	12273	4.9	598	3							9327	454	3	9570	473						
1960	1	11270	5.1	578																		
1956	1	4260	5.0	211	1							8740	306	1	10039	350						
407773	5	6	8673	5.0	435							1951	1	8530	5.2	443						
						1952	1	7840	5.5	430												
						1953	1	9520	5.0	478												
						1955	1	7490	5.6	531				1	11042	525						
						1957	1	4490	4.6	206				1	7150	278						
						1958	1	11680	4.5	524	1	13000	470									
409032	1	3	12193	4.5	553	1954	1	11550	4.4	513	1	9930	481	1	9221	435						
						1956	1	12630	4.6	578	1	9470	453	1	8448	436						
						1957	1	12400	4.6	568	1	10630	530	1	8164	411						
						1952	1	9120	4.8	439	1	8520	390									
411964	3	10	9314	4.7	441	1953	3	9817	4.8	468	1	8470	387	2	7532	376						
						1954	2	7500	4.5	336	1	7730	359	2	7745	382						
						1955	2	8200	4.8	395	2	7550	369	2	7260	347						
						1956	1	6830	4.5	308	1	9660	466	1	7946	363						
						1957	1	9080	5.0	451	1	11290	544	1	9265	431						
						1959	1	6860	4.9	335	1	9000	436	1	7837	392						
415071	1	1	6860	4.9	335	1955	2	8080	5.2	421	2	8995	446	1	10998	533						
						1956	3	8845	5.0	444	3	8350	416	2	7946	389						
						1957	2	8430	4.9	413	2	9150	383	2	10067	438						
						1958	1	5940	4.8	266												
						1959	1	7640	5.2	398	1	9430	434									
416675	1	1	6940	5.0	348	1956	1	6940	5.0	348	1	11280	496	1	9145	408						
419512	4	7	6827	5.5	376	1951	1	7520	5.5	416												



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
GUERNSEY																
						1952	3	7237	5.4	392	1	9840	494			
						1953	1	8480	5.8	495	1	10880	536	1	10017	522
						1954	1	7000	5.7	399	1	9320	477	1	10257	528
						1955	1	5470	5.1	179	1	7960	411	1	9178	479
419514	2	3	6783	4.8	325	1955	2	6835	4.9	327	2	7080	316	2	7924	358
						1956	1	5120	4.9	253	1	6930	301	1	7957	358
428158	1	1	8260	4.8	399	1957	1	8260	4.8	399	1	8180	378	1	9320	453
428943	9	19	10721	4.8	509	1954	5	10564	4.7	495	4	10053	482	4	9221	435
						1955	5	10184	5.0	507	3	9787	478	3	9396	432
						1956	5	9032	4.7	424	5	9510	459	5	8448	436
						1957	2	17320	4.8	701	1	9710	487	1	8164	411
						1958	1	14840	5.5	812						
						1960	1	11990	4.7	565	1	8460	403			
429838	13	16	7354	5.1	375	1953	2	7170	5.3	375						
						1954	1	9270	5.3	494	1	8870	458	1	10257	528
						1955	1	7320	4.7	347	1	7400	381	1	9178	479
						1956	5	8110	5.1	415	5	9128	419	5	8934	417
						1957	5	6995	5.4	376	2	9930	445	2	10017	452
						1958	5	6667	5.1	537	2	7515	406	3	8328	444
						1959	2	6290	5.4	341	2	7285	433	2	8426	399
438205	4	5	7793	4.9	385	1956	1	9490	5.0	479						
						1957	3	7407	5.0	371	2	9525	462	2	10165	489
						1958	1	8240	4.7	388	1	8540	394	1	7915	388
440227	11	13	8277	4.9	401	1955	3	8147	5.1	415	3	8097	393	3	8349	395
						1956	2	10380	4.9	503	2	9140	400	2	10044	485
						1957	4	8615	4.7	407	3	9083	432	4	9679	438
						1958	4	7648	4.7	359	3	7333	347	4	7761	344
458057	19	32	7179	4.8	347	1953	5	9707	4.8	471	5	8400	451	3	7957	401
						1954	6	8070	4.8	390	5	9750	430	4	9172	452
						1955	8	7316	4.7	348	7	7779	374	6	9102	438
						1956	6	7497	4.8	360	5	7654	389	3	8702	416
						1957	6	6953	5.1	354	6	8662	434	5	8476	418
						1958	2	8855	4.9	434	2	9030	443	1	7913	388
						1959	1	6190	4.7	293	1	7560	324	1	7270	334
464165	1	1	9990	4.7	474	1958	1	9990	4.7	474	1	12940	596	1	8851	508
473594	1	1	6430	4.7	303	1956	1	6430	4.7	303	1	6290	314	1	10061	456
475689	4	5	7281	4.6	334	1956	1	5690	4.6	261	1	12600	471	1	9036	385
						1957	1	8950	4.5	407	1	8150	397	1	9211	434
						1958	3	7740	4.6	352	2	9090	453	3	8458	427
479368	5	7	6540	4.8	311	1956	2	8130	4.8	384	2	8190	389	2	9701	455
						1957	2	7945	4.8	377	1	8810	425	2	8966	444
						1958	3	6130	4.6	280	2	13755	518	1	7303	372
499335	4	5	8879	4.6	399	1958	2	10370	4.5	463	2	8605	407	2	9494	471
						1959	3	6580	4.9	301	3	8337	388	3	8742	425

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
669877	1	1	9130	3.3	297	1948	1	9130	3.3	297						
717420	1	1	11780	3.7	441	1949	1	11780	3.7	441						
726056	1	1	7900	3.6	282	1955	1	7900	3.6	282						
733862	1	1	10590	3.2	344	1954	1	10590	3.2	344						
739097	1	3	11367	3.9	442	1956	1	8840	3.9	347	1	8310	308	1	6486	322
						1957	1	13250	3.9	513	1	11260	427			
						1958	1	12010	3.9	465	1	10290	390			
743690	1	1	8630	3.5	299	1954	1	8630	3.5	299						
757597	1	5	8778	3.9	339	1952	1	10220	3.9	401	1	13470	510			
						1953	1	8560	3.8	325	1	12560	457	1	12568	472
						1954	1	8290	3.8	317	1	12730	498	1	10584	378
						1955	1	7140	4.1	291	1	10480	405	1	11314	432
						1957	1	9680	3.7	359	1	10780	386	1	10061	364
761974	1	1	7990	4.0	321	1954	1	7990	4.0	321						
768546	1	1	5270	4.3	228	1953	1	5270	4.3	228						
779113	3	7	9939	3.8	374	1949	2	9325	3.9	363	1	11120	419			
						1950	2	9550	3.7	343	1	11580	367			
						1951	1	10420	3.7	387	1	11080	385			
						1952	1	11080	4.0	439	1	11520	427			
						1955	1	10270	3.8	389	1	11740	398	1	11401	409
779567	1	1	8990	3.7	329	1954	1	8990	3.7	329	1	11890	440	1	10181	382
780586	4	7	11971	3.9	458	1952	2	11680	3.6	418	1	11590	413			
						1953	3	13057	3.9	509	2	12540	477	2	11031	415
						1954	1	8550	4.0	339						
						1955	1	11460	3.8	439	1	10930	402	1	10442	415
783017	1	1	6920	4.0	278	1951	1	6920	4.0	278						
801022	1	1	10190	3.7	375	1957	1	10190	3.7	375	1	10930	431	1	10377	416
802900	9	22	11462	3.4	385	1949	1	10100	3.6	367						
						1950	2	12410	3.8	461						
						1951	2	9865	3.7	355						
						1952	7	9829	3.5	346	3	9445	349			
						1953	5	12748	3.4	433	2	10177	367			
						1954	4	13080	3.0	394	2	11760	422			
						1955	1	12650	2.6	328	3	11583	402	3	9930	341
812518	2	3	12633	4.1	512	1957	1	11930	4.1	490				1	13494	512
						1958	2	12585	4.1	511	1	10070	415			
813025	1	1	10070	2.9	290	1952	1	10070	2.9	290						
813033	7	18	12348	3.6	437	1948	1	12880	3.8	483						
						1949	4	12120	3.6	441						
						1950	2	13985	3.8	533						
						1951	3	12037	3.3	592						
						1952	2	9590	3.5	333	1	9240	303			
						1953	2	12655	3.8	480	2	12025	439	2	10655	362
						1954	1	8280	3.2	268	1	9170	315	1	10192	341
						1955	2	9460	3.8	360	2	10015	354	2	10742	370
						1956	1	11270	3.2	361	1	11740	397	1	8971	303
816372	2	2	9040	4.0	355	1956	2	9040	4.0	355						
819064	1	3	13643	4.0	544	1952	1	12910	3.8	495						
						1954	1	14627	4.1	595						
						1956	1	13400	4.0	541						
820752	1	1	11460	3.4	385	1953	1	11460	3.4	385						
824340	2	5	11117	4.1	447	1953	2	11650	4.0	467	2	6550	257	2	6496	294
						1956	2	10390	4.2	430	2	8765	344	1	9483	450
						1957	1	10700	3.7	397	1	8520	303	1	10377	416
826435	1	5	10050	3.2	325	1954	1	8310	3.1	259	1	9200	324	1	8121	262
						1956	1	10430	3.2	334	1	10800	411	1	9548	339
						1957	2	10230	3.2	331	1	7930	302	1	9908	342
						1958	1	11050	3.4	372	1	9350	277			
827425	1	3	10883	3.4	373	1953	1	11000	3.5	384						
						1954	1	11470	3.7	420	1	12210	447	1	9156	358
						1956	1	10180	3.1	316	1	13380	473	1	12154	433
828184	14	17	10599	3.8	401	1956	4	11705	3.9	451	4	10500	418	2	9085	402
						1957	10	10067	3.8	384	8	10999	425	8	11261	425
						1958	2	10340	3.6	372	2	11640	466			
						1959	1	13460	3.2	436	1	14230	461	1	12873	438

TABLE 15.--DAUGHTER-AVERAGE OF SIKES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
828627	1	3	8867	3.8	335	1952	1	9960	3.8	381						
						1953	1	10100	3.7	372						
						1954	1	6540	3.9	252						
828803	1	2	14885	3.8	565	1954	1	16030	3.8	602	1	14920	507	1	14682	517
						1956	1	13740	3.8	528	1	17650	670	1	14791	567
829607	1	2	9680	3.4	332	1953	1	9650	3.4	331	1	12340	457			
						1954	1	9710	3.4	332	1	12200	451	1	10965	423
831073	3	8	12095	3.5	427	1954	3	12867	3.5	446	1	9600	352	1	9309	319
						1955	2	14645	3.5	517	1	10150	364	1	8993	325
						1956	1	18290	3.7	669						
						1957	1	11770	3.5	409						
						1958	1	12830	3.8	488						
832427	4	14	11582	3.7	432	1953	1	11920	3.5	422						
						1954	3	11877	3.5	421	3	12153	463	3	10061	351
						1955	3	12313	3.8	483	3	9667	344	3	11256	408
						1956	3	9560	3.6	329	2	10510	357	2	9260	321
						1957	1	19460	4.4	850	1	11250	396	1	10726	414
						1958	2	14030	3.9	555	1	11400	416	1	9494	370
						1960	1	14180	3.6	517	1	9880	394	1	9995	392
838880	1	1	10390	3.9	402	1949	1	10390	3.9	402						
842876	36	66	11824	3.6	423	1955	8	12039	3.7	442	6	10987	411	4	10445	384
						1956	17	11264	3.7	421	15	10509	404	14	10835	411
						1957	21	11430	3.6	405	18	11090	418	18	10787	405
						1958	13	13137	3.7	480	7	12363	445	8	10750	445
						1959	6	14420	3.4	494	6	11045	396	5	11323	397
						1960	1	12510	3.3	412	1	9740	323			
844122	3	7	10791	3.6	388	1953	1	13160	3.5	458	1	10530	402	1	10573	398
						1954	1	12450	3.6	449	1	11390	423	1	10181	362
						1955	2	10725	3.6	383	2	10730	391	2	10829	395
						1956	2	10190	3.6	366	2	11025	385	1	10747	372
						1957	1	8840	3.8	334	1	10130	357	1	11358	391
845913	1	7	11876	4.1	485	1953	1	12480	3.9	483	1	12050	439	1	11031	415
						1954	1	10220	4.3	437	1	9630	305			
						1955	1	10300	4.0	409						
						1956	1	9510	4.1	394	1	5690	255			
						1957	1	14340	4.0	575	1	9720	381	1	11042	441
						1958	1	13270	4.2	561	1	9310	377			
						1959	1	13010	4.1	533	1	13520	560	1	13625	543
846979	13	21	11611	3.7	429	1954	5	11016	3.4	376	4	10910	396	4	10154	364
						1955	2	10860	3.6	392	1	10050	324	2	9832	330
						1956	3	13763	3.8	524	3	12930	467	2	8862	312
						1957	2	11875	3.3	390	2	11430	410	2	10840	385
						1958	7	11767	3.7	433	5	11500	436	5	9104	454
						1959	2	9130	3.8	349	2	9975	393	2	9539	368
847579	1	3	8103	4.0	319	1956	2	7840	4.0	311	2	11125	395	2	10464	368
						1958	1	8630	3.9	335	1	10020	345	1	9897	344
847834	4	8	11987	3.7	446	1953	4	12190	3.7	450	1	9760	396	1	8894	371
						1954	1	11160	3.7	413	1	13120	495	1	8884	354
						1955	1	8660	3.7	324	1	10780	438	1	10420	426
						1957	1	11020	3.9	432	1	10640	429	1	10529	405
						1959	1	8380	4.0	334	1	12330	472	1	11205	444
850298	1	2	8355	3.6	294	1955	1	9040	3.4	305						
						1956	1	7670	3.7	285						
852714	2	3	13603	3.4	463	1954	1	13790	3.4	472						
						1955	1	13750	3.5	481				1	8676	317
						1956	1	13080	3.2	424	1	11600	393	1	9897	350
854723	2	2	13935	3.5	471	1954	1	20410	3.2	657	1	14440	583	1	15805	613
						1955	1	7460	3.8	284				1	6289	228
856259	1	4	10528	3.0	318	1954	1	12240	3.1	378	1	12260	415	1	9668	352
						1955	1	11390	3.2	359	1	10130	357	1	10366	401
						1956	1	10010	3.0	299	1	10710	376	1	10464	368
						1957	1	8470	2.8	236	1	10610	375	1	10213	355
857507	1	1	18580	3.4	637	1953	1	18580	3.4	637	1	13600	473	1	11707	416
859238	2	6	11887	3.8	444	1954	2	13645	3.6	490	2	11535	459	2	9478	384
						1955	1	14680	3.8	561	1	11980	503	1	10813	465
						1956	1	9800	3.8	370	1	11870	454	1	11816	494
						1957	2	10600	3.9	407	2	10955	426	2	10732	417
860106	17	48	12151	3.6	438	1949	4	13120	3.5	459	1	11340	393			
						1950	4	14640	3.4	489						
						1951	5	12140	3.4	411						
						1952	4	11295	3.7	412						
						1953	5	10566	4.0	420	2	7710	368	3	10333	436
						1954	9	12071	3.9	470	6	10898	455	6	11625	475
						1955	7	13211	3.7	484	6	12240	483	6	11977	473
						1956	6	13995	3.6	504	5	12228	457	5	12012	442

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1957	4	13623	3.4	460	3	13370	473	2	13217	476
863577	1	1	16310	3.7	609	1955	1	16310	3.7	609						
864818	2	2	8735	3.3	290	1953	1	11480	3.5	397						
						1954	1	5990	3.0	182	1	9260	310	1	10192	341
865315	1	3	12160	3.6	439	1955	1	15900	3.6	575	1	14190	519	1	15380	579
						1956	1	11020	3.6	400	1	12010	442			
						1957	1	9560	3.6	342	1	12660	439	1	11718	429
865323	17	26	12485	3.7	462	1956	1	8000	3.6	291	1	13650	486			
						1957	3	9417	3.6	337	3	11647	432	3	10991	402
						1958	8	15086	3.8	564	6	14615	535	7	10371	517
						1959	12	12862	3.8	481	11	14715	545	12	12309	497
						1960	2	10835	3.7	398	1	13460	463	1	13080	477
867412	1	2	8535	4.0	338	1957	1	9200	3.9	360	1	9310	362	1	9036	351
						1958	1	7870	4.0	315	1	8970	357	1	9396	382
870736	1	2	9885	3.5	346	1953	1	11050	3.8	416	1	11920	417			
						1954	1	8720	3.1	275	1	11460	395	1	9930	341
873313	1	2	16310	3.6	584	1956	1	14340	3.6	520	1	11910	436			
						1957	1	18280	3.5	647	1	12400	430	1	11718	429
874540	54	116	11510	3.6	410	1949	2	9300	3.7	345						
						1950	1	12840	3.9	501	1	14420	529			
						1951	1	14250	3.3	470						
						1952	5	11774	3.6	420	1	13540	494			
						1953	14	10876	3.6	396	8	13319	490	4	11254	429
						1954	17	11742	3.5	412	12	12662	467	12	12522	467
						1955	17	11703	3.5	411	14	11937	432	14	12049	440
						1956	22	12142	3.5	426	19	11636	422	18	12736	466
						1957	14	10534	3.6	382	11	12000	439	9	11782	428
						1958	12	12540	3.5	436	11	13151	485	7	11595	419
						1959	10	12612	3.7	464	7	13150	479	8	12868	466
						1960	1	12960	3.8	493	1	14860	569			
876560	1	1	8930	3.9	344	1957	1	8930	3.9	344	1	9040	340			
876629	4	9	11868	3.8	439	1951	1	11470	4.2	480						
						1952	1	15830	3.1	492	1	14420	510			
						1954	2	13515	3.4	452	2	14320	524	2	12579	470
						1955	2	15030	3.4	498	2	13680	495	2	13985	511
						1956	3	10913	3.8	405	1	10940	400	3	11743	447
878665	3	7	13297	4.0	525	1954	2	15445	3.9	596	2	13640	507	2	12094	447
						1955	1	12390	3.8	466	1	14330	545	1	14323	561
						1956	2	13870	4.1	565	2	12815	484	2	12514	463
						1958	2	11680	4.0	479	1	11250	476			
880210	10	19	10083	3.8	378	1953	2	11450	3.8	426	2	12020	413			
						1954	3	10993	3.8	410	3	12120	422	3	10126	353
						1955	1	8210	3.7	304						
						1956	2	9285	4.1	373	2	11655	418	2	10862	404
						1957	4	7260	3.7	270	4	9060	357	3	9912	353
						1958	3	13107	3.7	480	3	11530	455	1	13596	484
						1959	3	13080	3.9	498	2	13315	496	3	9636	516
						1960	1	13460	3.4	463	1	8590	313	1	13080	477
885172	17	49	11065	3.5	386	1949	5	12594	3.7	461						
						1950	4	12065	3.8	452						
						1951	4	13058	4.0	516						
						1952	5	11444	3.7	422	1	10220	333			
						1953	7	9866	3.4	341	4	9140	303	3	8110	270
						1954	7	10450	3.2	340	5	9270	309	5	9082	298
						1955	7	10130	3.3	327	6	9925	342	5	9642	323
						1956	5	10594	3.4	354	4	9953	343	4	9764	334
						1957	2	10465	3.2	334	2	9360	327	2	10513	357
						1958	2	11710	3.5	401	1	10380	386	1	8339	291
						1959	1	15270	3.6	547	1	12360	472	1	12579	444
886182	2	3	13910	3.9	533	1956	2	13500	3.9	519	1	12570	481	1	13538	520
						1957	1	11480	3.9	445	1	13690	540	1	13941	523
887740	2	3	8813	3.6	314	1953	1	8680	3.8	329	1	12520	458	1	11031	415
						1954	2	8795	3.5	312	1	11210	445	1	12786	492
889438	1	1	15240	3.1	472	1953	1	15240	3.1	472						
890181	16	26	11741	3.9	454	1954	2	12720	3.7	467	1	13370	481	1	10519	377
						1955	2	10435	4.0	420	2	15345	452	1	10835	382
						1956	1	9140	3.8	345	1	13140	458	1	11260	400
						1957	2	12600	3.9	480	1	10960	434	1	10835	428
						1958	8	11644	4.0	463	7	13176	484	6	10288	456
						1959	8	13080	3.9	504	7	12750	485	8	11545	484
						1960	3	10553	3.6	391	3	12677	462	1	12470	492
891850	1	5	11768	3.6	422	1953	1	13680	3.7	511	1	10910	412			
						1954	1	14590	3.6	521	1	9760	358	1	10181	382
						1956	1	3890	3.6	141	1	9600	338			
						1957	1	13840	3.5	478				1	11183	398

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
HOLSTEIN																	
						1958	1	12840	3.6	458		1	10450	362	1	10802	378
897452	1	1	11890	4.3	512	1960	1	11890	4.3	512		1	10570	428			
900274	50	98	12242	3.8	470	1955	7	11669	3.8	444		7	11093	399	7	10925	401
						1956	14	12186	3.8	461		14	11436	425	13	11531	432
						1957	26	11713	3.8	450		25	12431	471	22	12021	450
						1958	27	12918	3.8	490		17	12944	477	11	11314	500
						1959	22	12822	3.8	490		20	13730	501	21	12453	479
						1960	2	12825	3.8	475		2	13925	505	1	14246	549
901667	6	21	9827	3.5	345	1952	2	9640	3.3	319							
						1953	4	10303	3.4	352		3	10253	378	3	9738	370
						1954	3	9877	3.4	332		2	9965	335	2	9963	353
						1955	5	9554	3.4	324		4	10060	372	4	10560	377
						1956	3	9720	3.6	345		2	10160	375	2	10590	402
						1957	2	8585	3.7	307		1	8620	341	1	8044	317
						1958	1	10160	3.9	392		1	11160	405	1	9603	371
						1959	1	12090	3.8	462		1	11160	397	1	9538	352
903887	1	1	10820	3.7	399	1952	1	10820	3.7	399							
904220	1	2	10220	3.8	389	1957	1	9320	3.9	367		1	13320	561	1	12720	483
						1958	1	11120	3.7	411							
904258	11	30	10685	3.7	394	1950	1	9060	4.8	434							
						1951	1	8630	4.6	398							
						1952	1	11320	3.5	397		1	15830	492			
						1953	7	11574	3.7	429		5	12938	448			
						1954	5	10690	3.9	418		3	12443	464	3	11387	415
						1955	3	9450	3.7	339		2	10625	402	2	11827	445
						1956	4	11573	3.5	403		4	11488	400	3	10664	402
						1957	4	9863	3.7	366		3	9017	317	3	9054	349
						1958	3	9363	3.7	345		3	10097	379	1	7924	299
						1959	1	7910	3.9	307		1	10500	383	1	10704	392
905683	1	3	6910	4.1	281	1958	2	6610	4.3	282		1	8320	339	1	9396	382
						1959	1	7510	3.7	279					1	8720	338
905694	1	1	13600	3.9	531	1958	1	13600	3.9	531							
906000	1	3	11267	4.5	503	1957	1	11450	4.4	507		1	12550	489	1	12611	499
						1958	1	11840	4.5	528		1	9350	277			
						1959	1	10510	4.5	473		1	13760	547	1	14235	546
906710	1	4	15395	3.4	514	1954	1	14150	3.3	471		1	12370	461	1	11837	431
						1955	1	16390	3.2	530		1	11950	431	1	12404	451
						1956	1	16270	3.4	546		1	12210	452	1	12426	451
						1958	1	14770	3.5	510		1	12110	415	1	11663	429
908196	47	84	10807	3.8	407	1954	2	9355	3.7	341		2	9740	398	2	8044	334
						1955	11	10504	3.7	388		11	9922	383	9	9746	385
						1956	25	10837	3.8	410		22	10759	413	20	10406	416
						1957	28	10153	3.8	385		25	10874	404	25	10939	412
						1958	8	11865	3.8	452		5	12116	467	3	12357	469
						1959	6	9993	3.7	365		5	11310	436	5	11356	425
						1960	4	13368	3.9	518		4	13210	505	1	10987	409
910630	2	2	10875	4.7	518	1955	2	10875	4.7	518		2	10600	431	2	12089	459
910702	17	34	13008	3.8	490	1955	12	12973	3.7	467		12	11049	437	11	12015	468
						1956	11	12135	3.7	449		10	12126	470	8	12421	465
						1957	7	13226	4.0	525		6	13468	509	6	12766	486
						1958	3	12937	4.0	523		3	12583	493	2	12851	488
						1959	1	15730	3.8	604		1	16490	601			
919745	1	6	13852	4.3	598	1954	1	14340	4.2	603		1	12340	435	1	11837	431
						1955	1	14700	4.5	662		1	11860	418	1	12404	451
						1956	1	14100	4.4	618		1	11470	408	1	12426	451
						1957	1	12390	4.2	521		1	11590	433	1	12317	458
						1958	1	13920	4.3	601		1	12280	425	1	11663	429
						1959	1	13666	4.3	582		1	10550	382			
920561	1	1	12900	3.7	474	1959	1	12900	3.7	474							
923749	3	5	11622	4.1	475	1948	1	11200	4.6	317							
						1949	1	11270	4.2	478							
						1955	1	11870	4.0	474		1	12520	429	1	11728	389
						1960	2	11710	4.0	467		2	10090	432			
925394	1	3	17640	3.9	692	1953	1	16170	3.8	617		1	19790	622	1	15772	547
						1954	1	17670	4.0	710		1	15600	613	1	14682	517
						1955	1	19080	3.9	748		1	16310	615	1	15740	561
926363	8	10	12454	3.7	458	1956	4	11995	3.6	432		3	11843	431	3	11707	429
						1957	4	12690	3.6	463		3	12617	493	4	11105	442
						1959	2	14360	3.6	520		2	12725	447	2	12470	444
928763	11	26	12557	3.7	463	1950	2	16145	3.6	567							
						1951	4	11208	3.8	425							
						1952	4	10500	3.7	389		1	8520	324			
						1953	2	10165	3.5	361		2	10120	369	2	8764	307
						1954	5	10970	3.8	417		4	10715	404	4	10164	378
						1955	1	11430	3.2	371		1	10030	370	1	9636	358



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1956	2	13025	3.6	464	2	11090	410	2	10137	378
						1958	2	14705	3.7	537	2	13790	519	1	13036	455
						1959	4	15125	3.7	561	4	14258	536	3	13985	522
928765	8	11	8463	3.8	321	1951	1	8720	3.5	306						
						1953	2	9825	4.1	402	1	10630	362	1	10268	365
						1954	1	3880	4.1	159	1	11170	377	1	9243	344
						1956	1	6500	3.8	246	1	9700	326			
						1957	1	7200	3.9	281	1	8470	291	1	8753	305
						1959	4	9518	3.7	352	4	10303	391	4	10775	424
						1960	1	7120	3.7	264	1	11220	431	1	10715	405
933199	1	2	7225	3.5	253	1958	1	6540	3.5	232	1	8340	320	1	8142	310
						1959	1	7910	3.5	274	1	9010	343	1	8535	317
936924	6	24	12964	3.6	463	1953	1	14860	3.4	508	1	12130	437	1	12655	431
						1954	4	13828	3.7	504	4	12685	469	3	13650	487
						1955	4	13343	3.6	481	3	12650	452	4	12857	463
						1956	6	12753	3.6	460	6	12418	446	6	12312	442
						1957	4	15103	3.5	531	4	13140	439	4	12118	454
						1958	3	12443	3.4	423	3	12180	432	3	11303	401
						1959	2	12600	3.7	470	2	12885	478	2	8704	364
938595	1	1	12550	3.1	392	1958	1	12550	3.1	392	1	12510	417	1	11129	419
939457	1	1	11220	3.7	417	1956	1	11220	3.7	417						
941809	1	1	15870	3.5	548	1957	1	15870	3.5	548				1	11859	439
947834	20	55	12397	3.7	460	1950	4	14335	3.9	559	3	13633	462			
						1951	1	11800	3.8	444						
						1952	4	14128	3.8	540						
						1953	13	12741	3.8	485	9	11993	447	6	13193	486
						1954	9	12316	3.6	435	6	11497	422	7	11674	442
						1955	12	11362	3.6	398	10	11696	430	10	12067	450
						1956	8	12039	3.9	462	6	11478	421	5	11674	442
						1957	2	15340	3.7	565	1	12830	520	1	12611	499
						1958	2	12815	3.6	456	2	11490	514	2	10901	446
948424	1	5	12304	3.8	468	1953	1	10830	3.9	422	1	10450	399	1	10660	420
						1955	1	12800	4.0	506	1	11710	413	1	10431	382
						1956	1	12710	3.5	446	1	11090	391	1	10726	377
						1957	2	12590	3.8	484	2	9920	372	2	10181	368
949041	1	2	14280	3.8	539	1954	1	14730	3.8	553	1	15320	581	1	15456	581
						1955	1	13830	3.8	525	1	14270	520	1	15380	579
949159	1	1	14940	3.6	543	1958	1	14940	3.6	543	1	15860	596			
950648	1	3	13247	4.3	569	1956	1	15540	3.8	587	1	9640	313	1	15107	558
						1957	1	14400	4.7	678	1	12540	264	1	11794	443
						1958	1	9800	4.5	442	1	11040	436			
950707	1	1	8890	3.7	331	1956	1	8890	3.7	331						
951104	1	1	10950	3.7	407	1955	1	10950	3.7	407	1	14370	525	1	15380	579
952029	5	7	15781	3.5	555	1958	1	16680	3.1	519	1	15040	599	1	14802	579
						1959	4	15508	3.6	558	4	15225	586	4	14892	573
						1960	2	17105	3.5	601	1	13660	539	1	15413	577
952618	22	44	11881	3.6	424	1954	2	13985	3.4	471	2	15045	553	2	11489	462
						1955	8	12858	3.7	469	8	11769	432	8	11979	450
						1956	15	11667	3.7	425	13	11253	424	12	10880	414
						1957	8	12621	3.4	433	8	11931	447	7	11275	418
						1958	5	10742	3.6	380	5	12232	467	1	14039	547
						1959	5	11864	3.3	400	5	11786	434	5	11864	438
						1960	1	10770	3.5	377	1	12420	438			
953322	1	1	14430	3.3	476	1955	1	14430	3.3	476	1	12150	429	1	11728	389
955493	2	2	14340	3.9	555	1959	2	14340	3.9	555	2	14255	521	1	15554	594
959407	43	77	10594	3.7	395	1950	1	12770	3.6	457						
						1951	4	10300	3.9	396						
						1952	8	8474	3.9	352						
						1953	2	11445	4.4	487	2	11260	465	1	12023	486
						1954	15	10697	3.8	407	14	12238	443	14	11549	439
						1955	15	11555	3.8	437	14	11706	425	13	11960	454
						1956	9	11250	3.7	412	8	11398	417	8	11865	440
						1957	5	9482	3.7	350	5	11236	405	3	11572	422
						1958	4	12653	3.5	444	4	12970	460	4	11674	434
						1959	13	11338	3.7	420	12	11987	430	13	11419	449
						1960	1	11090	3.9	437	1	12960	487			
959486	13	21	11651	3.6	419	1955	6	10258	3.6	376	6	12662	452	3	12699	486
						1956	7	11841	3.6	418	7	11137	417	6	12286	455
						1957	3	13053	3.4	449	3	11150	396	3	12045	434
						1958	2	12675	3.5	443	2	12275	501			
						1959	2	14840	4.0	586	2	14940	562	2	14552	541
						1960	1	11380	4.2	483	1	16260	627	1	17277	681
960287	1	2	7975	3.2	252	1952	1	7730	3.0	234	1	9200	306			
						1953	1	8220	3.3	269	1	10820	375	1	9211	301
961106	1	3	10183	3.5	358	1952	1	10740	3.8	410	1	9010	346			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.		
						1954	HOLSTEIN											
							2	9905	3.4	332	2	11940	438	2	9930	341		
964715	6	23	8603	3.6	308	1953	4	8300	3.7	306	4	9688	336	4	8620	328		
						1954	5	9106	3.5	318	5	9914	335	5	8444	282		
						1955	4	7928	3.7	297	4	8590	314	4	9508	350		
						1956	3	8447	3.6	300	3	9173	328	3	9872	359		
						1957	3	7967	3.6	290	2	9140	306	3	9287	334		
						1958	2	11065	3.8	414	2	10600	425	1	8539	291		
						1959	2	11355	3.7	414	2	10825	402	2	11467	415		
965039	3	7	10859	4.0	436	1955	3	11220	4.0	456	3	12443	426	1	12154	405		
						1956	2	10335	4.1	422	1	11430	395	1	10747	372		
						1959	1	10060	2.9	291	1	9230	304	1	10769	350		
						1960	1	8230	3.4	281	1	10350	342					
967873	14	17	13814	3.6	500	1958	6	14100	3.6	513	6	13255	480	5	11572	431		
						1959	10	15073	3.5	465	6	15446	570	8	11906	494		
						1960	1	14330	3.4	492	1	13710	539					
969667	6	8	9525	4.0	377	1955	2	8255	4.2	350	2	11140	400	2	15740	546		
						1956	1	10220	3.9	394	1	9340	337	1	13908	502		
						1958	2	9625	3.6	366	1	9420	363	1	11641	410		
						1959	3	9673	4.0	385	3	13613	501	3	12023	455		
969669	7	9	12476	4.0	499	1954	1	9720	4.1	396	1	12000	492	1	11707	455		
						1955	2	9765	4.0	380	2	11415	397	2	15740	546		
						1956	2	11665	4.1	477	2	14010	505	2	13036	508		
						1959	3	15393	4.0	610	3	15983	585	3	13879	522		
						1960	1	16010	4.3	684	1	15870	637					
969932	65	154	12652	3.5	442	1950	2	13485	3.7	493	1	13980	536					
						1951	5	10878	3.4	374	3	12640	467					
						1952	10	11224	3.6	400	5	13180	488					
						1953	17	12406	3.7	458	14	13516	500	8	11744	446		
						1954	16	13419	3.5	473	14	12599	469	11	12431	466		
						1955	19	12288	3.6	440	17	12131	436	17	12240	448		
						1956	26	13155	3.5	469	22	12387	447	23	13201	485		
						1957	21	12321	3.4	419	20	11852	434	15	12108	445		
						1958	16	12439	3.3	413	16	10819	419	12	10943	393		
						1959	20	13699	3.5	473	18	13242	477	18	12841	466		
						1960	2	8250	3.4	278	2	10765	411	1	9091	324		
970836	18	48	12875	3.6	456	1951	1	11710	3.9	451								
						1952	3	12933	3.5	458	2	9740	496					
						1953	7	11424	3.4	388	4	9948	406	1	9483	450		
						1954	7	13291	3.5	473	6	9622	420	6	9407	415		
						1955	10	12982	3.6	465	9	11687	448	5	10800	432		
						1956	10	13615	3.5	480	5	10866	418	5	10976	435		
						1957	3	13657	3.6	495	3	12287	490	3	11703	453		
						1958	7	13881	3.5	484	5	12488	457	4	12225	456		
972097	1	3	10290	3.8	347	1954	1	3560	5.0	178	1	11450	390					
						1955	1	13600	3.0	413	1	10790	383	1	10246	340		
						1956	1	13710	3.3	451	1	11300	406	1	11020	371		
973824	1	2	14960	3.9	585	1958	1	13530	3.9	525	1	10590	403					
						1960	1	16390	3.9	644	1	9700	375					
975137	7	9	11630	3.4	389	1957	2	11685	3.5	410	2	12565	445	1	12154	432		
						1958	4	12165	3.3	392	4	10603	409	3	10308	376		
						1959	3	10123	3.6	361	3	11550	443	3	12208	422		
975683	1	1	11190	3.6	400	1960	1	11190	3.6	400								
977102	3	10	12419	3.9	480	1955	2	12160	3.8	468	1	9520	334	1	9450	337		
						1956	3	12850	3.9	502	2	11950	412	2	10432	368		
						1957	2	12505	3.9	482	1	12550	438	2	11353	411		
						1958	2	9885	4.1	398	1	12010	426	1	11391	416		
						1959	1	15240	3.5	538	1	14650	512	1	12164	443		
977103	15	30	9730	3.8	372	1953	3	9785	3.5	335	2	9880	361	2	9892	350		
						1954	3	8510	3.4	286	3	9830	334	3	9349	322		
						1955	6	10440	3.8	389	6	11397	429	6	12185	461		
						1956	9	9006	3.9	349	9	9922	383	9	11578	435		
						1957	2	7930	3.7	296	2	9235	338	2	10317	378		
						1958	3	10633	3.9	406	2	13705	566	3	9494	370		
						1959	3	9775	4.0	388	3	9407	372	3	9538	368		
						1960	1	11230	3.8	428	1	12640	443					
978712	1	1	14110	3.5	490	1955	1	14110	3.5	490	1	12200	427	1	11728	389		
978750	4	6	13093	3.7	478	1957	1	16290	3.5	578	1	12210	434	1	12611	499		
						1958	2	13555	3.6	488	2	12805	463					
						1959	2	12310	3.8	460	2	13720	526	2	14350	537		
						1960	1	9700	3.7	358	1	12260	485	1	12470	492		
980098	15	36	11772	3.8	439	1955	4	11978	3.8	450	3	12217	443	3	10922	408		
						1956	11	10949	3.7	409	9	11736	426	7	10906	384		
						1957	10	12192	3.8	458	8	11133	410	8	11046	403		
						1958	7	13010	3.6	473	6	10748	390	4	10903	394		
						1959	3	10233	3.7	385	3	11873	436	3	10820	393		

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
						1960	HOLSTEIN									
980687	12	26	10836	3.6	386	1954	1	14800	3.8	560	1	12980	453			
						1954	6	12987	3.5	453	6	10522	414	6	10152	408
						1955	8	10708	3.7	385	6	10738	407	6	10571	405
						1956	6	10590	3.5	374	5	12084	468	4	11892	440
						1957	4	10793	3.5	373	5	11507	415	2	11282	419
						1958	1	14370	3.5	502	1	14330	528	1	13396	484
981308	4	7	12331	3.5	431	1959	1	12290	3.5	435	1	16570	605	1	13102	480
						1955	1	14390	3.6	524	1	11880	412	1	10780	360
						1956	2	13695	3.3	450	1	12850	457	1	11260	400
						1958	1	9840	3.9	381	1	11840	431			
						1959	2	9970	3.6	356	2	11570	427	2	11582	426
						1960	1	14040	3.5	488	1	14680	560			
982292	3	8	11789	3.6	418	1954	1	12260	3.4	415	1	12460	419	1	15042	479
						1955	1	15420	3.5	541	1	11840	412	1	10780	360
						1956	2	12600	3.6	449	2	11515	407	2	11064	366
						1957	1	9620	3.6	346	1	10070	356	1	11358	391
						1959	2	8105	3.6	292	2	9935	321	2	10769	350
						1960	1	12860	3.6	459	1	9690	316			
984799	18	23	12282	3.7	453	1957	3	12593	3.6	453	2	11185	413	2	12666	491
						1958	7	11421	3.7	421	4	11860	460	2	12394	450
						1959	10	12560	3.8	472	9	13728	511	10	11900	462
						1960	3	13267	3.5	464	3	13010	456			
984803	5	5	12026	4.0	479	1957	2	12955	4.2	540	1	15030	522	1	14432	529
						1958	3	11407	3.8	438	2	12745	481	2	12241	456
991095	1	1	16940	3.4	576	1955	1	16940	3.4	576						
991875	1	1	12040	3.8	463	1956	1	12040	3.8	463	1	13900	534			
992658	1	1	13150	3.4	447	1954	1	13150	3.4	447	1	12120	419	1	9930	341
993764	6	7	11624	3.7	425	1957	1	15770	3.7	580						
						1958	3	9930	3.9	380	2	11280	450			
						1959	2	12470	3.7	455	2	12630	445	2	11783	416
						1960	1	12880	3.5	424						
997481	1	2	13245	3.8	504	1958	1	12680	3.9	493	1	13200	473	1	12568	472
						1959	1	13610	3.7	515	1	12660	466	1	13287	475
998194	13	18	12147	3.7	444	1956	2	13065	3.6	465	2	12350	459	2	12612	469
						1957	6	12627	3.8	477	6	12910	482	6	12235	464
						1958	3	15623	3.5	527	2	11070	465			
						1959	6	10850	3.5	382	5	11788	430	4	10620	387
						1960	1	7620	3.5	264	1	3550	368			
						1958	2	14930	3.8	544	2	11655	419	2	12132	457
1000390	13	15	15187	4.0	603	1959	11	15021	4.0	605	11	13731	525	10	13826	534
						1960	2	18610	4.2	784	2	15350	614			
						1958	1	9200	4.0	370						
1001512	1	1	9200	4.0	370	1958	1	9200	4.0	370						
1003598	3	6	10189	3.9	394	1954	1	7860	4.1	326	1	14670	466	1	14770	499
						1955	3	11017	3.8	423	3	12550	433	3	14454	511
						1956	1	9640	4.0	387	1	14490	556	1	11794	460
						1957	1	6890	3.9	268	1	13310	506	1	13690	519
1003963	7	14	12829	3.2	418	1952	1	8370	3.3	279						
						1953	1	9120	3.2	293						
						1954	2	10080	3.2	331	2	10270	361	2	11015	386
						1955	2	15460	3.1	479	2	12415	459	1	12404	451
						1956	1	14310	3.5	506	1	10170	386	1	12426	451
						1957	2	13660	3.5	475	2	10850	387	2	10917	414
						1958	4	15065	3.4	509	3	13113	509	3	9759	512
						1959	1	12940	3.6	467	1	16560	604	1	13102	480
						1957	5	10966	4.0	438	4	11060	417	4	11644	436
1004232	14	19	12184	3.8	457	1958	3	11363	3.8	431	3	11943	465	2	10868	388
						1959	9	13452	3.7	498	8	12590	454	9	10990	446
						1960	2	12280	3.5	430	2	11660	417			
						1959	1	12710	3.9	496	1	9780	378			
1004966	1	1	12710	3.9	496	1959	1	12710	3.9	496						
1005575	49	80	11304	3.5	396	1955	13	11055	3.5	382	12	10330	372	12	9787	353
						1956	22	10635	3.6	380	19	10745	397	16	10747	402
						1957	23	11257	3.5	400	18	11214	408	18	11526	419
						1958	12	12063	3.5	422	12	11955	436	6	12145	437
						1959	9	11682	3.4	398	8	11339	405	8	11948	417
						1960	1	15880	3.6	567	1	14930	577	1	14246	540
1005798	17	25	12092	3.8	459	1953	4	12245	3.6	442	3	11053	441	1	9145	337
						1954	1	14670	3.9	573	1	13310	500			
						1955	3	12460	4.2	537	3	13323	484	3	11776	425
						1956	2	14370	3.7	537	2	13385	481	2	14307	528
						1957	2	9465	3.8	355	1	11970	413	1	12491	464
						1958	5	12912	3.8	496	4	13058	459	2	10748	378
						1959	7	12543	3.8	474	7	12450	455	7	11453	415
						1960	1	15310	3.7	571	1	13950	521			
						1953	1	12320	3.9	486						
1006142	1	1	12320	3.9	486	1953	1	12320	3.9	486						
1007680	5	6	13075	3.7	493	1959	4	12910	3.7	479	4	13540	503	3	13273	488

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE							RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTAMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.			
HOLSTEIN																			
						1960	2	16020	4.0	642	2	13960	536						
1008622	8	9	12501	3.8	479	1957	5	12816	4.0	511	5	12410	470		4	13573	524		
						1958	3	12530	3.7	459	3	11587	429		2	11483	424		
						1959	1	9540	3.8	366	1	16860	646		1	17320	666		
1012593	6	6	11840	3.6	426	1958	3	12370	3.6	437	3	12740	459		3	12343	454		
						1959	2	11725	3.7	434	2	9025	358		2	10257	424		
						1960	1	10480	3.6	380	1	9500	344						
1018853	1	1	2680	3.7	99	1959	1	2680	3.7	99	1	8950	333		1	6856	246		
1019538	1	1	13640	3.6	493	1959	1	13640	3.6	493	1	11900	438						
1020277	12	20	11259	3.8	424	1957	4	9983	3.8	378	4	9925	363		3	9912	353		
						1958	5	11802	3.8	450	3	14620	531		3	9759	512		
						1959	8	13205	3.6	482	6	12347	454		7	10449	442		
						1960	3	12753	3.9	492	3	11877	446		2	11680	444		
1021253	14	27	12158	3.7	450	1954	3	11310	3.6	398	3	11207	406		3	11078	393		
						1955	9	11949	3.5	424	8	11178	412		6	11083	409		
						1956	5	11554	3.8	438	5	10216	412		4	12235	458		
						1957	2	13540	3.7	502	1	12920	495		1	13690	519		
						1958	2	12010	3.7	440	2	10525	409		2	8873	341		
						1959	5	12152	3.7	458	5	12264	476		5	12337	469		
						1960	1	9780	3.9	380	1	12940	464						
1022095	13	37	13956	4.1	567	1951	1	12840	3.9	499									
						1952	6	14612	4.1	593									
						1953	9	13112	4.2	553									
						1954	11	14952	4.0	592									
						1955	4	15685	3.9	605									
						1956	4	15255	3.9	595									
						1957	1	16170	3.9	625									
						1958	1	14430	4.0	570									
1023039	1	1	13880	3.8	523	1960	1	13880	3.8	523	1	13820	479						
1024453	1	1	20380	3.5	707	1959	1	20380	3.5	707									
1025416	26	82	14146	3.7	526	1952	8	14880	3.7	547									
						1953	9	15767	3.7	582									
						1954	10	15538	3.7	580									
						1955	16	14476	3.7	537									
						1956	16	14356	3.8	539									
						1957	15	13678	3.9	532									
						1958	7	14487	3.8	545									
						1960	1	14270	4.0	577									
1025570	24	51	11882	3.7	436	1954	4	11240	3.8	429	2	8650	345		2	8791	342		
						1955	17	11532	3.7	424	12	11153	400		9	11696	423		
						1956	11	12219	3.7	450	10	10774	400		10	10791	394		
						1957	11	10304	3.6	371	10	11877	432		10	11020	409		
						1958	5	12088	3.4	415	5	11550	400		2	11511	414		
						1959	3	13630	3.8	512	2	12460	470		2	12704	480		
1027992	15	19	12773	3.5	444	1958	1	10380	3.6	374	1	9760	351		1	12960	495		
						1959	15	12809	3.5	444	14	13733	492		12	13125	476		
						1960	3	12420	3.4	420	3	14547	518		1	14889	570		
1030404	2	3	16355	4.0	649	1959	1	14270	3.8	549	1	14550	557		1	14126	547		
						1960	2	17090	4.0	678	2	16495	674		1	17277	681		
1033908	9	10	13249	3.6	479	1959	8	13601	3.6	490	7	12471	448		8	11278	468		
						1960	2	13035	3.8	486	2	13340	506		1	10987	409		
1043859	10	19	13270	3.7	489	1955	1	10540	3.8	405	1	11860	424		1	11794	420		
						1956	5	11764	3.9	453	5	11722	431		5	12561	461		
						1957	5	12432	3.7	454	4	10945	391		3	11532	423		
						1958	5	14154	3.6	506	5	12832	462		3	12412	454		
						1959	3	12743	3.7	475	3	12737	474		3	12328	456		
1045403	3	9	9686	3.8	372	1955	3	9563	4.0	383	2	12455	441		1	12154	405		
						1956	3	10420	3.9	408	2	12900	471		2	11952	418		
						1957	1	12370	3.7	460									
						1958	1	10320	3.6	367									
						1959	1	7090	2.8	196	1	8820	294		1	10769	350		
1047120	3	4	9707	3.9	371	1952	1	9130	3.7	334									
						1953	2	10295	3.8	389									
						1955	1	10440	3.9	405									
1054181	2	2	11715	4.0	468	1959	2	11715	4.0	468	2	11665	465		2	12726	492		
1054406	3	6	12235	3.5	416	1954	1	10000	3.4	338	1	10190	340						
						1955	3	12697	3.4	420	3	11060	383		3	13909	477		
						1956	1	14510	3.6	520	1	12430	395		1	11020	371		
						1957	1	8800	3.8	336	1	10910	390		1	12470	445		
1055483	1	1	17560	3.8	672	1959	1	17560	3.8	672	1	14230	533		1	15554	594		
1055709	26	46	11902	3.8	455	1955	4	10465	3.7	385	4	9620	383		3	9229	397		
						1956	9	11691	4.0	466	8	10639	431		8	10604	432		
						1957	14	11364	3.9	450	12	10300	406		13	10525	422		
						1958	5	12000	3.8	449	5	13056	510		4	12244	475		
						1959	8	12248	3.7	454	7	11737	475		6	12871	495		

TABLE 15.--DAUGHTER-AVERAGE OF Sires IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1960	6	13262	3.6	479		5	11990	468		
1056655	17	43	13081	3.7	483	1952	2	14030	4.0	554						
						1953	5	12744	3.7	473						
						1954	15	13136	3.7	483						
						1955	8	14078	3.8	532						
						1956	8	13019	3.9	501						
						1957	3	12313	3.7	456						
						1958	2	13055	3.4	449						
1056882	10	11	13791	3.8	517	1955	1	8840	4.0	350	1	11240	391	1	15740	546
						1956	1	6120	4.0	244	1	10020	362	1	13908	502
						1958	1	16410	3.5	581	1	13000	466	1	12568	472
						1959	7	14403	3.8	543	7	13561	526	5	13294	507
						1960	1	13200	3.7	493	1	10730	405	1	11423	441
1057953	1	1	14560	3.1	445	1955	1	14560	3.1	445	1	12140	433	1	11728	389
1058767	3	4	12947	3.6	465	1956	1	14300	3.5	496	1	11070	390	1	8971	303
						1957	2	11765	3.5	415	2	11915	427	2	10650	371
						1958	1	13990	3.6	503	1	12080	499	1	11892	440
1061167	36	69	10886	3.8	414	1953	1	14400	3.5	507	1	15600	567	1	18105	639
						1954	7	11971	3.6	439	6	11150	409	5	10307	389
						1955	16	10606	3.8	407	15	11957	444	10	10933	424
						1956	20	11566	3.8	440	18	10157	384	15	12069	459
						1957	15	9977	3.8	382	12	11089	429	12	11252	440
						1958	7	12213	3.8	464	4	12325	451	5	11659	452
						1959	5	11893	3.4	410	2	12590	448	2	11783	416
1061458	2	2	13995	3.9	537	1959	1	15550	3.0	585	1	14720	505	1	15097	604
						1960	1	12440	3.9	489	1	11220	423	1	10987	409
1061894	1	1	13070	4.0	528	1958	1	13070	4.0	528						
1064435	9	15	11199	3.8	419	1955	1	3740	3.7	140	1	14000	536	1	12590	494
						1956	7	12114	3.7	453	6	11915	457	5	11707	453
						1957	4	11370	3.8	421	4	12273	459	4	12595	459
						1958	1	13650	3.6	488	1	16020	606	1	15958	627
						1959	2	10860	4.1	432	2	14965	576	1	13625	543
1070036	5	15	13669	3.9	537	1954	4	14505	3.7	548	4	9765	358	1	11020	429
						1955	4	13173	3.8	492	4	10815	418	4	10203	355
						1956	1	12320	3.7	453	1	11530	406	1	11020	371
						1957	2	10870	3.7	406	2	11060	401	2	12470	445
						1958	4	12910	4.0	521	4	10045	395	2	10170	384
1072328	1	1	15200	3.3	501	1958	1	15200	3.3	501	1	11290	400			
1073831	1	1	9350	4.1	385	1958	1	9350	4.1	385						
1076680	8	8	11335	3.6	410	1959	6	10642	3.5	377	6	10565	413	6	11158	428
						1960	2	13415	3.9	509	2	12695	475			
1081684	1	1	9590	4.2	405	1959	1	9590	4.2	405	1	13130	482	1	11369	419
1082308	1	3	11710	4.1	474	1953	1	11660	3.9	455	1	12440	471	1	11031	415
						1956	1	10800	4.3	465	1	10130	416	1	12186	487
						1957	1	12670	4.0	502	1	9820	385	1	11042	441
1087974	11	12	16202	3.7	602	1959	11	16145	3.7	596	10	13717	535	11	13448	507
						1960	1	17920	3.9	706				1	15413	577
1090340	1	1	16510	4.3	715	1959	1	16510	4.3	715	1	13100	535	1	13625	543
1094921	1	3	15113	4.0	606	1958	2	14690	4.3	627	1	15740	602	1	13320	523
						1959	1	15960	3.5	565	1	14700	559	1	16132	608
1099131	18	32	10772	3.6	387	1954	5	10897	3.8	410	3	8513	351	3	9432	394
						1955	7	12283	3.8	464	5	8836	330	5	9025	388
						1956	13	10460	3.6	371	11	11633	425	9	11646	429
						1957	6	9597	3.4	329	6	11145	414	6	10916	406
						1958	2	9980	3.8	370	2	10085	346	2	10552	363
						1959	1	12480	3.2	396	1	10410	401	1	11020	412
1099321	7	9	10864	3.4	367	1954	1	9860	3.2	314	1	9190	290	1	8295	277
						1955	2	10520	3.6	370						
						1958	4	10260	3.4	342	3	11373	415	2	11260	394
						1959	2	12105	3.4	409	2	10690	396	2	0497	356
1106407	1	1	13130	3.5	462	1958	1	13130	3.5	462						
1106775	1	1	11390	3.7	426	1959	1	11390	3.7	426	1	11380	418	1	11619	458
1107500	1	1	6770	4.3	294	1959	1	6770	4.3	294						
1111075	1	1	8720	3.4	299	1958	1	8720	3.4	299	1	12720	477			
1111076	2	2	15520	3.8	580	1958	1	12720	3.8	477	1	8720	299			



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						HOLSTEIN	1	18320	3.7	683	1	14210	533	1	15554	594
1113278	1	1	13740	3.8	526	1958	1	13740	3.8	526	1	13170	472	1	12568	472
1118017	1	1	9050	4.0	361	1959	1	9050	4.0	361	1	8690	318			
1119514	1	1	14570	4.1	597	1959	1	14570	4.1	597	1	13630	543	1	14235	546
1122869	19	41	10978	3.7	404	1955	4	11693	3.7	437	1	13540	517	2	11560	427
						1956	8	11305	3.7	417	5	11402	406	4	10088	365
						1957	10	10187	3.7	376	10	10346	392	9	11595	431
						1958	6	10145	3.5	356	6	12130	449	3	12026	432
						1959	9	11353	3.7	417	8	11979	439	9	11257	424
						1960	4	11055	3.9	432	2	11560	435	1	9810	360
1124815	3	4	10963	3.8	416	1959	2	12480	3.7	468	1	12080	434	2	11500	412
						1960	2	10130	3.8	370	2	12310	456	1	12404	498
1125395	1	2	13340	3.8	498	1958	1	11020	3.8	419	1	15240	510	1	13036	455
						1959	1	15660	3.7	576	1	12390	446			
1126687	1	1	15120	3.6	546	1960	1	15120	3.6	546	1	13710	493			
1132993	1	2	13040	3.8	490	1957	1	14780	3.7	548	1	12520	452			
						1958	1	11300	3.8	432	1	9350	277			
1137503	3	3	12747	3.9	495	1959	2	12245	4.0	490	1	11400	457			
						1960	1	13750	3.7	505	1	7080	350			
1141353	10	13	11602	3.8	432	1957	3	12803	3.6	458	3	11843	415	3	11979	421
						1958	3	9323	4.0	368	2	11165	441	1	11129	387
						1959	3	12766	3.6	461	5	13030	467	5	12631	456
						1960	2	9455	4.0	371	2	10565	400			
1149460	1	1	10140	4.0	404	1960	1	10140	4.0	404	1	11250	420	1	10889	395
1151863	5	5	13632	4.0	533	1959	5	13632	4.0	533	5	13446	494	5	13252	487
1152126	1	1	13340	4.6	616	1959	1	13340	4.6	616						
1152351	1	1	13880	3.4	470	1960	1	13880	3.4	470	1	13820	506			
1153740	2	4	9475	3.9	369	1958	1	8180	3.9	321				1	11391	416
						1959	2	11680	3.9	451	1	11950	438	1	11619	458
						1960	1	8950	3.9	347	1	11870	471			
1154152	13	20	12484	3.9	480	1956	2	13355	3.6	469	2	12495	450	2	10742	410
						1957	8	13015	3.8	493	7	10871	416	7	10944	422
						1958	6	11250	4.0	447	5	11230	444	5	8321	423
						1959	3	11570	3.8	443	3	11520	447	3	11242	449
						1960	1	13710	3.9	536				1	12786	504
1156059	2	2	13140	3.9	520	1959	2	13140	3.9	520	2	10245	424	2	10426	449
1165194	1	1	14780	3.9	573	1960	1	14780	3.9	573	1	15130	573			
1170910	1	1	9820	3.6	355	1958	1	9820	3.6	355						
1174679	17	21	10405	3.9	405	1957	7	9217	4.0	361	6	10363	405	7	10467	411
						1958	6	12135	3.8	451	3	12063	444	2	12225	448
						1959	7	11326	4.0	454	6	12140	455	6	12855	487
						1960	3	11407	3.7	432	3	12563	511	1	15413	577
1175466	2	3	14033	3.7	519	1958	1	13260	3.7	495	1	11350	457	1	10072	426
						1959	2	14800	3.7	544	2	13040	508			
1175467	3	5	12542	4.0	498	1957	1	9650	4.3	417	1	13520	514	1	12012	445
						1958	1	11840	4.0	468	1	10020	423			
						1959	3	13520	4.0	537	2	12800	515			
1177943	24	34	12150	3.7	450	1956	1	11640	4.2	491	1	11550	404	1	11260	405
						1957	2	11260	3.8	431	2	11260	399	2	11325	417
						1958	7	11681	3.7	435	7	12557	459	4	11988	443
						1959	21	12471	3.7	457	18	13050	474	20	11584	464
						1960	3	12297	3.6	439	3	14413	517	1	12361	445
1179574	1	1	13280	4.0	532	1959	1	13280	4.0	532	1	14310	536	1	15554	594
1184848	2	2	13430	3.8	508	1958	1	12870	3.4	439	1	12300	428	1	12448	440
						1960	1	13990	4.1	576	1	10640	493			
1187374	10	13	12849	3.7	474	1957	4	11198	3.7	413	2	9510	427	4	10625	450
						1958	3	15393	3.7	567	3	11003	425	1	16623	655
						1959	5	13474	3.6	491	5	13320	503	5	13259	500
						1960	1	11470	3.7	421	1	9840	352			
1190151	1	1	14400	3.9	559	1959	1	14400	3.9	559	1	13120	509			
1192779	1	1	11930	3.7	439	1959	1	11930	3.7	439	1	14340	538	1	15554	594
1194165	1	1	13330	3.8	503	1959	1	13330	3.8	503	1	13530	473	1	14083	516
1194661	7	12	15524	3.9	606	1956	5	14302	3.9	551						
						1957	4	15045	4.1	613						
						1958	1	15000	4.0	596						

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1959	1	21150	3.7	773						
						1960	1	23360	3.9	913						
1216909	1	2	10850	3.7	404	1959	2	10850	3.7	404	1	12990	470	2	13364	478
1216957	1	1	11690	4.1	476	1959	1	11690	4.1	476	1	14470	561	1	14126	547
1224313	3	5	10963	3.9	423	1958	1	14690	3.8	557	1	15990	589			
						1959	3	8917	4.1	366	1	12460	529			
						1960	1	15190	3.4	519	1	12790	512	1	12590	497
1231857	2	2	8610	3.8	320	1957	1	9710	3.7	358	1	10680	397			
						1959	1	7510	3.8	282	1	11030	402	1	11096	419
1232331	5	10	14123	4.1	584	1957	4	13820	4.3	602						
						1958	3	11080	4.0	434						
						1959	3	13583	3.8	517						
1232456	4	7	12268	3.5	432	1959	4	11713	3.6	422	3	11723	437	3	11965	459
						1960	3	12263	3.5	433	3	11937	460			
1234776	1	1	14410	4.0	576	1958	1	14410	4.0	576						
1236350	4	7	11414	3.9	436	1959	5	10110	4.0	391	3	10377	423	3	11256	449
						1960	2	13175	3.7	483	2	12735	481			
1242266	3	3	10727	3.8	405	1958	1	7950	3.7	291	1	11120	380	1	10922	408
						1959	2	12115	3.8	463	2	13250	514	1	12644	505
1244854	2	2	12205	3.7	433	1959	2	12205	3.7	433	2	12750	480	2	12895	486
1246337	5	6	11331	3.6	407	1958	1	12600	3.8	474						
						1959	4	11195	3.6	396	4	12255	440	4	10524	406
						1960	1	10940	3.5	381	1	11360	444			
1254088	1	1	15240	3.3	499	1959	1	15240	3.3	499	1	14710	495	1	14323	491
1264447	1	1	15800	4.0	626	1960	1	15800	4.0	626	1	8040	286	1	9091	324
1288851	1	1	8290	4.2	351	1960	1	8290	4.2	351	1	11770	482			

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
383102	2	3	7353	5.4	394	1947	3	7130	5.3	379						
393048	1	2	8485	5.1	433	1950	1	9980	5.0	501						
						1951	1	6990	5.2	365						
397468	5	7	5371	5.6	299	1948	2	5585	5.4	301						
						1949	2	6000	5.2	310						
						1950	1	5600	5.9	330						
						1951	1	5360	6.0	324						
						1952	1	4850	5.8	279						
401876	8	22	5977	5.6	327	1949	2	6045	5.5	516						
						1950	2	6220	5.6	341						
						1951	5	7356	5.5	407	1	8390	456			
						1952	6	6723	5.8	389	1	8430	475			
						1953	1	6280	5.3	333						
						1954	5	5194	5.6	266	2	7375	398	2	7009	342
						1956	1	6490	4.7	303						
404106	1	3	6097	5.3	320	1952	1	4700	5.5	247						
						1953	1	6590	5.4	354						
						1954	1	7000	5.1	358						
406501	3	8	7944	5.2	412	1949	1	7590	5.0	584						
						1950	3	8047	5.2	423	1	8460	427			
						1951	1	9220	4.8	446	1	8770	421			
						1952	2	8190	5.2	424	1	9470	533			
						1953	1	7060	5.7	400	1	7400	421	1	7968	400
408166	2	10	7222	4.8	343	1947	1	8080	4.4	353						
						1949	2	7490	4.9	367						
						1950	1	9190	4.4	401						
						1951	2	8345	4.8	394						
						1952	2	6755	4.9	321						
						1953	2	5900	4.8	278						
408648	2	4	5358	5.2	274	1947	1	6190	5.7	320						
						1949	2	6230	5.1	316						
						1950	1	2780	5.2	143						
408649	6	14	6379	5.4	343	1949	5	6324	5.5	344	1	6600	318			
						1950	2	6685	5.2	351						
						1951	2	6020	4.9	304	1	5390	258			
						1952	2	7455	5.0	369	1	7400	346			
						1953	1	6140	4.6	285	1	6860	338	1	7499	355
						1955	1	8280	4.4	364	1	7780	377	1	7652	380
						1956	1	6330	4.5	272	1	7010	354	1	8186	407
414890	5	11	7252	5.4	390	1949	1	8560	5.2	444						
						1950	5	6962	5.3	371						
						1951	2	8450	5.2	435						
						1952	2	8860	5.5	484						
						1953	1	8510	5.2	430						
416060	1	5	10934	4.9	534	1949	1	9140	5.3	485	1	8280	433			
						1950	1	12010	5.2	628	1	8040	400			
						1951	1	10790	4.8	522	1	8410	439			
						1956	1	10340	4.6	480	1	9410	484			
						1958	1	12390	4.5	555	1	10180	559	1	8426	449
422256	3	3	6350	5.1	318	1949	1	5170	5.4	281						
						1950	1	5070	5.3	270						
						1951	1	8810	4.6	402						
422916	8	18	5987	5.1	301	1949	1	5480	5.1	282						
						1950	3	6070	5.2	321						
						1951	3	5777	5.1	290						
						1952	5	6422	5.1	321						
						1953	5	6966	4.9	342	1	7150	395	1	6693	378
						1954	1	6760	5.1	344	1	6600	349	1	6649	389
424779	1	1	9710	5.1	496	1953	1	9710	5.1	496						
426161	4	12	7026	5.0	349	1948	2	6100	5.3	321						
						1949	2	7650	4.8	368						
						1950	1	10940	5.0	548						
						1951	1	11210	5.2	581						
						1952	2	8185	4.8	392	1	7900	376			
						1953	2	8045	4.7	374	1	7530	366	1	7499	355
						1954	2	7570	4.6	363	1	7060	346	1	6976	351
426784	1	1	6430	4.9	317	1957	1	6430	4.9	317						
437533	71	177	8051	5.2	414	1949	2	9510	5.3	496						
						1950	12	7645	5.2	393	2	7765	394			
						1951	35	7879	5.3	414	4	8298	406			
						1952	42	8401	5.2	430	11	8403	449			
						1953	21	7968	5.4	425	8	8394	450	6	7639	367
						1954	22	8830	5.0	443	10	7205	380	11	7994	415
						1955	21	8818	5.0	438	10	7918	410	10	7838	408
						1956	8	8135	5.1	415	6	8045	410	5	7837	401

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. LB.	YEARLY HERO RECORDS NO.	MILK LB.	AVERAGE FAT LB.
JERSEY																	
						1957	6	8395	5.1	422	4	7223	379		4	7344	382
						1958	4	9583	5.0	480	2	10780	560		2	7958	404
						1959	3	8677	5.2	442	3	8057	457		3	8902	481
						1960	1	9660	4.2	409	1	7400	374				
438165	2	2	8340	4.9	408	1957	1	7410	4.9	360							
						1959	1	9270	4.9	455	1	6980	396		1	6932	388
438400	7	11	9394	5.5	513	1955	2	8835	5.2	456	2	8030	471		1	9102	487
						1956	1	12590	5.2	655	1	9440	525		1	9712	525
						1957	4	9813	5.4	532	4	9440	529				
						1959	3	7753	5.8	448	2	7465	386		2	7031	362
						1960	1	10080	6.0	606	1	6590	311				
440663	73	169	7493	5.3	394	1947	1	7200	5.4	385							
						1948	6	6902	5.4	371							
						1949	20	7962	5.5	428							
						1950	22	7796	5.1	396							
						1951	25	7982	5.3	419	2	9630	496				
						1952	26	7358	5.2	380	3	7313	406				
						1953	18	7648	5.2	394	5	7486	419		5	6993	350
						1954	21	7207	5.2	368	7	6751	362		8	7690	393
						1955	15	8129	5.3	429	5	8112	428		6	7914	415
						1956	10	7878	5.5	426	5	8106	427		5	7898	419
						1957	4	7968	5.6	443	3	7820	408		3	7485	404
						1958	1	7000	5.1	360	1	7610	372				
440745	18	38	6823	5.3	361	1951	2	8285	5.1	422	1	7500	391				
						1952	8	6916	5.4	372	2	9055	466				
						1953	11	7884	5.1	407	4	8598	442		2	8131	428
						1954	8	7614	5.1	389	5	8246	412		4	7549	413
						1955	3	7043	5.7	394	3	7853	413		3	7925	403
						1956	4	5388	5.2	276	3	8097	426		3	7227	367
						1957	2	5105	5.0	254	2	7605	359		1	9941	446
440924	5	6	6029	5.4	326	1952	2	5580	5.8	321							
						1953	2	6580	5.3	347							
						1954	1	6860	5.2	356							
						1955	1	4790	4.8	229							
442230	7	13	6344	5.2	332	1950	1	7910	4.9	390							
						1951	2	7680	5.7	436							
						1952	2	5555	5.3	291							
						1953	1	4340	5.5	238							
						1954	2	6325	5.2	332	2	7490	387				
						1955	4	6098	5.1	311	4	6778	339		4	7576	389
						1956	1	7110	5.2	372	1	7490	377		1	7074	358
444268	20	43	7627	5.4	408	1949	3	7530	5.7	427							
						1950	8	7460	5.6	412							
						1951	7	7381	5.1	380							
						1952	9	8142	5.4	435							
						1953	9	6394	5.3	337	2	7925	410		1	6693	378
						1954	5	7964	5.2	413	2	6695	352		2	6649	389
						1955	1	8860	5.0	445	1	9350	446		1	9701	476
						1958	1	7540	5.2	390	1	11270	602		1	8502	445
444525	13	38	7820	5.2	396	1950	2	6070	5.8	347							
						1951	2	6895	5.6	385							
						1952	5	7302	5.2	383	2	8105	417				
						1953	7	8099	5.1	405	3	8427	438		2	7113	379
						1954	9	8368	5.1	420	6	8045	405		2	7478	368
						1955	9	8359	5.1	415	7	7800	386		7	7636	386
						1956	3	8853	4.9	407	1	9650	488		1	8764	448
						1958	1	14240	3.9	553	1	8650	432		1	8644	439
445150	2	3	5575	5.0	270	1957	1	7650	4.6	351	1	7970	399		1	7826	387
						1958	2	3500	5.4	189	1	5110	272				
445855	2	4	6279	5.2	329	1956	2	6915	5.4	372	1	8420	466		1	8524	445
						1957	1	5930	4.9	291							
						1958	1	5490	4.8	265							
447222	3	4	5903	5.0	289	1949	2	4660	5.3	238							
						1950	1	8160	4.6	372							
						1951	1	7650	4.8	369							
447268	14	32	6783	5.2	355	1949	4	7193	4.6	348							
						1950	5	6652	5.1	338	1	9430	554				
						1951	7	6607	5.3	344	1	8910	462				
						1952	6	7095	5.4	305							
						1953	1	5460	5.1	277							
						1954	3	6210	5.2	319	1	6720	393				
						1955	4	7618	4.9	376	2	6880	383		2	7870	409
						1956	1	7610	5.9	449	1	8500	457		1	8524	445
						1957	1	7540	6.3	473	1	8160	472		1	7990	469
447337	13	37	6282	5.4	336	1947	2	7020	5.4	366							
						1948	2	4375	5.4	237							
						1949	3	5503	5.4	293							
						1950	6	6612	5.3	340	1	7490	368				
						1951	7	6774	5.5	372							
						1952	9	6799	5.3	355							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
						JLRSEY										
						1953	2	6380	5.6	357						
						1954	4	6923	4.7	322	1	7220	326	1	6605	332
						1956	1	7150	3.9	282	1	5930	290	1	6627	355
						1957	1	5760	4.3	245	1	6410	332	1	6115	295
449222	2	3	9103	4.8	436	1951	1	7790	4.8	376						
						1952	2	9070	4.8	436						
449432	30	63	7501	5.2	384	1949	1	6960	5.4	376						
						1950	3	6040	5.5	334						
						1951	7	7167	5.3	386	1	6650	326			
						1952	14	7730	5.1	393	2	5970	423			
						1953	8	8881	5.0	438	5	6596	352	5	6156	309
						1954	13	8112	5.2	417	4	6493	361	3	6882	340
						1955	7	8880	4.8	428	3	6750	349	3	7307	378
						1956	4	9388	4.6	433	4	8160	417	3	7572	382
						1957	3	7357	5.2	386	3	7103	380	3	6983	355
						1958	2	7215	4.8	348	2	7520	373	2	6905	339
						1959	1	7920	4.8	381	1	6680	346			
449541	42	81	7426	5.4	399	1948	1	6690	5.6	372						
						1949	5	6772	5.5	380						
						1950	8	9085	5.9	334	1	10260	506			
						1951	2	7255	5.5	396	1	8480	445			
						1952	4	6690	5.3	352	1	6610	374			
						1953	9	7420	5.3	399	2	6690	360	2	6458	341
						1954	12	7859	5.2	406	4	7490	403	4	7764	428
						1955	7	7841	5.3	419	5	8658	463	5	8454	447
						1956	6	7545	5.5	411	5	8678	452	5	8210	432
						1957	5	7926	5.4	425	4	8103	428	4	8260	447
						1958	9	7310	5.7	415	5	8868	475	5	8009	435
						1959	9	8012	5.2	418	4	7615	401	4	8761	439
						1960	4	8595	5.1	433	2	8120	402	1	8197	433
449709	1	2	9095	5.0	449	1954	1	9950	5.0	497						
						1955	1	8240	4.9	401						
450606	15	38	6565	5.2	345	1948	2	6610	5.2	341						
						1949	7	6887	5.2	350						
						1950	4	8908	5.3	470						
						1951	9	7188	5.3	385						
						1952	9	6401	5.3	339	1	7120	361			
						1953	3	5327	4.8	256	1	6060	317	1	5842	308
						1954	2	7265	4.9	357						
						1955	1	7530	5.4	404						
						1956	1	6170	5.3	329						
450869	12	25	7582	4.9	370	1951	3	6957	5.1	351						
						1952	10	7720	4.9	381	1	10460	485			
						1953	5	7840	4.9	384	1	10460	485			
						1954	2	11860	4.5	529	2	10650	452			
						1955	3	9635	4.3	416	3	9375	407	3	8993	400
						1956	1	11190	4.0	453	1	10880	448	1	9145	408
						1957	1	9660	4.2	409	1	11370	449	1	9941	446
450981	11	25	8887	5.1	454	1950	7	9780	4.9	482	1	6310	405			
						1951	5	8114	5.2	422						
						1952	5	7962	5.3	418	1	7460	434			
						1953	1	9340	5.3	496						
						1954	3	8840	5.2	462	1	8260	449	1	7892	354
						1955	1	7290	5.5	402						
						1956	2	7615	4.8	364						
						1957	1	12660	5.3	672	1	5720	299			
450982	12	25	7013	5.6	393	1952	3	5317	5.5	288						
						1953	5	6398	5.2	341	1	8970	504			
						1954	6	7423	5.3	398	3	8653	460	1	9320	522
						1955	5	8264	6.0	493	4	9090	493	4	8878	476
						1956	3	5650	5.3	301						
						1957	1	6380	4.7	300						
						1958	1	7120	4.8	339						
						1959	1	7260	5.6	408	1	8610	444	1	10322	519
451141	4	5	7250	5.2	379	1956	2	7915	5.1	462	2	9995	474	2	8666	403
						1957	3	7083	5.3	379	3	10447	528	1	9941	446
452510	7	10	8147	5.1	418	1956	1	8530	5.2	445	1	8590	445	1	8044	392
						1957	1	4890	5.1	252						
						1959	6	8582	5.1	433	4	7853	408	4	8960	464
						1960	2	8255	5.4	439	2	7215	367	2	8077	421
452873	31	46	7639	5.2	393	1947	1	7980	4.6	369						
						1948	5	7690	5.1	389						
						1949	6	8325	4.8	397						
						1950	7	8313	5.2	434						
						1951	5	8680	5.2	448						
						1953	2	5725	5.9	337						
						1954	11	7196	5.1	364	4	8023	407	2	7205	370
						1955	5	6722	5.2	347	1	7010	368	1	6878	361
						1956	2	7315	4.9	355						
						1957	1	7670	4.9	372						
						1959	1	8060	5.1	413	1	7600	384	1	6878	351
455885	3	12	7462	4.5	334	1951	1	8320	4.3	358	1	7990	454			
						1952	2	9560	4.7	445	1	7040	394			
						1953	1	5370	5.0	266						
						1954	1	12110	4.2	504	1	10110	505	1	9352	463



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
JERSEY																
457675	16	41	7766	5.4	418	1955	1	9160	4.3	392	1	6920	364	1	7641	374
						1957	3	6997	4.5	314	2	7345	395	3	7332	345
						1958	2	7550	4.1	307	1	8160	424	2	7314	346
						1959	1	10010	4.0	404	1	7520	400	1	8600	436
						1950	1	6980	5.7	398	1	6800	432			
						1951	2	9220	5.1	478						
						1952	4	8523	5.4	452	3	6410	353			
						1953	5	7872	5.6	456	4	6910	376	2	7064	390
						1954	14	8307	5.5	453	11	7546	390	6	7293	375
						1955	9	7211	5.3	386	8	7321	364	8	7799	404
457678	9	27	7353	4.9	360	1956	4	7945	5.3	423	3	8057	415	3	7841	404
						1957	1	6950	5.6	388	1	7760	419	1	8894	439
						1958	1	6690	6.0	399	1	10650	552	1	8644	439
						1949	5	7968	5.0	398	1	6450	379			
						1950	7	7493	4.9	366	1	8840	440			
						1951	5	6800	4.8	329						
						1952	6	7197	5.0	355						
						1953	2	5575	4.6	263	1	7160	412			
						1954	1	8430	5.3	449	1	8010	416	1	6289	328
						1956	1	7150	5.8	415	1	6500	344	1	7379	395
457681	16	38	8073	5.3	426	1949	2	7255	5.3	380						
						1950	3	8827	5.4	475						
						1951	10	8408	5.2	441	1	8910	462			
						1952	8	8310	5.4	448						
						1953	9	7509	5.5	411						
						1954	3	7570	5.0	384	2	6690	332	1	7957	379
						1955	2	7465	4.8	366	2	7410	365	2	8290	416
						1956	1	7710	4.3	332	1	7670	360	1	7968	378
						1952	1	5670	6.1	344						
						1953	1	7570	5.8	436						
457682	3	4	7182	5.6	392	1954	2	8305	4.8	396						
						1952	3	3033	5.2	418	1	9560	474			
						1953	6	8345	5.0	417	1	11210	550	1	8121	416
						1954	9	8733	5.1	443	1	10300	516	1	8807	440
						1955	10	8750	5.1	446	4	8488	429	3	8357	420
						1956	5	7750	5.2	401	1	7780	357			
						1957	2	8140	4.7	382						
						1958	6	8407	5.0	420	3	8873	501	2	8366	471
						1959	5	7496	5.8	429	2	8455	435	4	6709	479
						458831	1	6	7128	4.9	349	1951	1	6050	4.7	267
1953	1	5640	5.5	311										1	6377	310
1956	1	7590	4.9	371	1							8230	408	1	6627	355
1957	1	6850	4.8	330	1							6190	315	1	6115	295
1958	1	7230	4.9	351	1							7360	365	1	7401	339
1959	1	9410	4.7	441	1							8650	419	1	8502	352
1949	2	7430	5.8	430												
1950	8	8254	5.3	438	1							5730	338			
1951	6	8504	5.0	420	2							9755	532			
1952	9	8020	4.9	394	3							8613	447			
458832	21	48	7666	5.1	390	1953	4	9323	4.5	417	2	9165	463	1	8186	413
						1954	6	7815	5.0	381	2	7950	422	2	7815	415
						1955	4	6860	5.1	346	2	7025	371	2	6813	356
						1956	4	7785	4.2	370	2	7060	416	2	6905	362
						1957	1	7380	4.6	351						
						1958	2	7790	4.7	369						
						1952	4	9046	5.1	460						
						1953	1	8990	4.2	379						
						1954	3	7327	4.7	344						
						1955	2	7390	4.5	331						
459064	6	12	8056	5.0	403	1956	1	9620	4.7	450						
						1957	1	6360	5.0	318						
						1957	1	8660	4.6	413	1	8220	423	1	8600	420
						1959	1	9360	5.1	477	1	8050	408	1	8764	432
						1955	1	8610	5.6	482						
						1957	1	10300	4.5	464	1	7810	411	1	8600	470
						1958	2	9220	5.7	520	2	9350	519	2	8829	405
						1959	1	7170	4.9	353	1	8610	446	1	10322	519
						1960	1	6950	5.4	377	1	7020	369	1	5505	296
						464307	19	33	7812	4.9	379	1950	3	7340	4.7	344
1951	8	8139	5.0	403	1							8220	411			
1952	8	7391	5.0	368	1							8640	458			
1953	3	8003	5.0	400	2							8305	443	1	7968	400
1954	7	8086	4.9	390	4							7765	420	2	9064	492
1955	3	7437	5.4	398	3							8240	414	3	8099	413
1957	1	7570	5.0	382												
1951	5	8546	4.9	419												
1952	8	8748	5.0	435												
1953	5	8454	5.0	412												
464308	19	37	8276	5.1	415	1954	5	7948	5.2	412	2	7855	388	1	7957	379
						1955	5	7724	5.0	381	3	8243	388	3	7866	389

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR																
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.						
						JERSEY																
466801	7	13	7901	5.6	440	1956	5	8496	4.9	416	3	8427	412	3	7990	386						
						1957	2	5900	5.0	298	2	6460	310	2	6938	342						
						1958	2	6135	4.8	289	1	9580	476	1	8230	403						
						1952	2	7245	5.5	399	1	8940	465									
						1953	2	8135	5.6	449	1	7380	417	1	7968	400						
						1954	1	7600	5.1	385	1	8510	413	1	7957	379						
						1955	3	8513	5.1	435	2	7820	362	2	8251	399						
466979	8	23	7815	5.0	386	1957	3	7557	5.8	431	2	8575	441	2	7810	421						
						1958	2	8250	5.2	426	2	9020	493	2	8077	430						
						1950	1	6450	5.4	348												
						1951	3	9583	5.0	481												
						1952	2	9235	5.1	469	1	7540	431	1	7445	413						
						1953	2	8580	5.3	449	1	7930	437	1	7826	428						
						1954	2	6655	5.0	328	2	7870	425	1	7690	410						
467898	5	5	9146	5.4	497	1955	4	6743	4.6	323	3	7017	362	2	7500	384						
						1956	5	6998	4.8	337	4	7820	402	4	7717	383						
						1957	2	6100	4.8	285	2	7310	392	2	7717	383						
						1958	2	7010	5.0	346	1	6860	358	1	6333	330						
						1959	4	9395	5.5	524	4	7900	430	3	8506	441						
						1960	1	8150	4.7	386	1	8060	406	1	8197	433						
						468196	26	49	7114	5.4	380	1953	5	7290	5.5	400	2	9100	483	1	7968	400
1954	14	7166	5.4	381	5							7826	397	4	7878	410						
1955	12	7158	5.4	385	9							8297	435	9	8097	420						
1956	6	8220	5.1	416	4							8425	428	4	7587	373						
1957	5	5688	5.3	299	5							8104	417	5	7567	379						
1958	5	8128	4.9	394	4							7915	399	2	7434	383						
1959	1	7940	5.2	410	1							8750	449	1	8862	393						
1960	1	9520	4.8	457	1							8300	413	1	8197	433						
468352	1	4	6763	5.5	369							1951	1	9550	5.4	514						
												1952	1	7020	5.7	397	1	9700	443			
						1953	1	6970	5.4	375												
						1957	1	3510	5.4	188	1	6130	319	1	6551	371						
468908	2	7	9581	5.4	514	1952	2	9840	5.3	515												
						1954	2	10120	5.2	526												
						1955	1	11000	5.2	572												
						1956	1	9250	6.4	588												
						1957	1	10050	5.1	515												
						470097	19	79	7079	5.2	366	1949	2	6070	6.2	372						
1950	1	8000	6.2	496																		
1951	5	6080	5.5	334	4							5915	266									
1952	7	8054	5.3	430	6							7312	325									
1953	13	7723	5.2	400	13							6658	304	13	7499	355						
1954	15	7792	5.2	406	14							7168	323	14	6976	351						
1955	10	7245	5.0	363	10							7903	401	10	7652	380						
1956	7	7071	5.0	352	7							8570	425	7	8186	407						
1957	9	6416	5.2	333	8							7820	395	8	6965	356						
1958	6	6040	5.1	305	5							6796	362	5	7129	365						
1959	3	6183	5.1	310	3							6940	364	3	7216	376						
1960	1	10290	5.1	521	1							7140	373	1	7216	379						
470874	2	6	7768	5.5	426							1955	1	10560	4.9	521	1	8200	460	1	8371	433
												1956	1	6540	5.9	385	1	10730	539			
												1957	2	7535	5.4	409	2	8015	443	2	8274	469
						1958	2	7220	5.8	414	2	8340	477	2	8219	464						
471534	18	45	8500	5.3	446	1948	3	7750	5.0	388												
						1949	5	8518	5.0	426												
						1950	4	9425	5.2	485												
						1951	3	9620	5.2	500												
						1952	4	9845	4.9	487												
						1953	4	9650	5.3	507												
						1954	5	8984	5.1	450												
						1955	5	10120	5.0	507												
						1956	2	8185	4.7	402												
						1957	6	8245	5.4	450	5	10960	584	1	8121	409						
						1958	2	11090	5.3	587												
						1959	2	7270	5.7	408	1	6730	374	1	6932	388						
472178	3	3	7040	4.9	346	1950	2	5710	4.7	268												
						1951	1	9700	5.2	502												
472179	28	52	7123	5.5	387	1950	5	6068	5.8	352												
						1951	6	6723	5.5	364	1	8350	439									
						1952	6	6822	5.4	365	3	8317	441									
						1953	10	8059	5.4	431	5	8276	441	1	5842	308						
						1954	13	7205	5.6	385	5	7656	402	5	7863	411						
						1955	6	7245	5.5	401	5	8498	433	5	8149	423						
						1956	4	8160	5.3	433	4	8063	430	4	7816	412						
						1957	1	7670	5.4	416	1	8270	453	1	8546	482						
						1958	1	6300	5.4	341												
472180	19	37	7917	5.2	407	1950	2	10205	5.2	522												
						1951	4	7963	5.4	430												
						1952	9	7418	5.3	390	1	6900	333									
						1953	6	7342	5.2	381												

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
JERSEY																
472181	17	54	8438	5.2	434	1954	3	7957	5.6	443	1	8190	395	1	7957	319
						1955	7	9260	4.8	446	6	8665	442	6	8509	447
						1956	3	8213	5.2	416	3	7867	439	3	8618	461
						1957	1	7840	5.7	450	1	6750	376	1	7990	469
						1958	2	6895	5.5	376	1	6670	374	1	7924	456
						1949	4	8163	5.2	422						
						1950	10	9147	5.2	477						
						1951	9	8640	5.3	455						
						1952	10	8205	5.3	434						
						1953	10	6519	5.4	350	2	7695	419	1	6191	314
						1954	3	9913	4.8	468	2	6270	343	2	7140	363
						1955	4	9683	5.1	498	3	8317	445	3	8251	426
						1956	3	8990	4.9	435	2	8425	443	2	8742	462
						1958	1	9230	4.6	424						
						1955	2	8650	5.4	470	2	7400	389	1	7815	391
						1956	1	9510	5.7	545	1	9470	470			
473042	2	3	8590	5.4	466	1955	2	8650	5.4	470	2	7400	389	1	7815	391
1956	1	9510	5.7	545	1	9470	470									
473346	1	1	6900	5.5	379	1950	1	6900	5.5	379						
475668	2	7	6355	5.4	345	1954	2	6940	5.3	366						
						1955	1	8520	5.6	478						
						1956	2	5965	5.5	374						
						1957	1	7000	5.5	386						
						1958	1	6350	5.5	350						
475677	2	4	7632	5.3	399	1959	3	7807	5.1	394	2	8015	394	2	8295	422
						1960	1	8890	5.1	452	1	7650	400			
477690	4	8	7688	5.6	427	1955	1	6440	5.9	379	1	9520	486	1	9450	489
						1956	3	8103	5.7	461	3	9203	474	3	8673	450
						1957	3	7387	5.6	419	3	8573	441	3	8778	464
						1958	1	7350	5.3	387	1	10540	557	1	7728	373
477784	18	50	6176	5.5	339	1950	6	6637	5.7	373	1	5880	354			
						1951	8	6066	5.7	342	1	6330	351			
						1952	11	6357	5.5	349	3	6190	358			
						1953	8	6246	5.4	333	3	7030	388			
						1954	9	5216	5.5	288	3	6040	347	3	6551	359
						1955	5	6436	5.0	322	2	5900	330	2	5733	317
						1956	1	5740	4.7	268	1	7380	417	1	6050	320
						1957	1	5460	4.9	266	1	4530	262	1	5232	279
						1958	1	8730	5.0	435						
						1952	1	9440	6.1	580						
						1954	1	5220	5.9	308						
						1956	1	8590	5.1	436	1	8970	438	1	7794	393
						1958	1	7320	5.0	365						
478641	1	1	9430	5.2	487	1952	1	9430	5.2	487						
478650	1	2	6160	4.9	302	1957	1	6500	5.0	326	1	7660	369	1	7826	387
						1958	1	5820	4.8	278						
480287	5	9	8993	5.6	504	1957	1	8280	5.3	441	1	8880	473	1	8121	409
						1958	2	8460	5.5	464	2	7510	397	2	9080	465
						1959	5	9982	5.5	553	3	9140	495	4	8775	469
						1960	1	7740	5.8	446	1	9510	550	1	9654	552
486357	11	34	6487	5.5	356	1951	3	4873	5.2	251	1	6270	386			
						1952	6	6028	5.3	317	3	4943	279			
						1953	8	7236	5.4	393	4	7265	388			
						1954	6	6403	5.5	352	3	5560	323	3	6551	359
						1955	6	6932	5.5	376	4	5893	313	4	5733	317
						1956	3	7533	5.3	401	1	5050	310	2	6115	332
						1957	2	6150	5.3	330	1	4890	282	2	6050	320
486358	19	57	7692	5.4	409	1951	1	11370	4.4	496						
						1952	5	7072	5.3	376	2	8155	439			
						1953	6	7385	5.4	398	3	8680	467	2	7619	401
						1954	8	8029	5.3	423	5	7728	423	4	8178	443
						1955	12	7793	5.6	434	11	8678	462	10	8524	447
						1956	11	8050	5.4	430	10	3517	461	11	8369	447
						1957	8	7256	5.6	402	8	8106	447	8	8155	458
						1958	4	7675	5.1	388	4	7785	400	3	7296	388
						1959	1	5020	5.2	259	1	6570	396	1	7576	424
						1960	1	5300	4.9	262	1	6720	424			
						1955	1	6300	5.4	340	1	6680	331	1	7576	369
486514	7	8	6784	5.3	360	1956	5	6984	5.3	369	4	8720	415	4	7551	375
						1957	2	6240	5.3	331	1	7860	426	1	8894	459
488378	3	8	7857	5.4	425	1950	2	7795	5.3	415						
						1952	3	8360	5.4	453						
						1953	3	7507	5.5	416						
488471	1	1	7290	4.9	359	1960	1	7290	4.9	359	1	7790	390	1	7554	389
489791	2	2	2665	5.4	137	1950	2	2665	5.4	137						
490063	1	2	11840	6.3	745	1958	1	15130	6.3	949	1	9050	488	1	7434	426
						1959	1	8550	6.3	541	1	6770	392	1	9745	552

TABLE 15.--DAUGHTER-AVERAGE OF SIREs IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPs BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
JERSEY																	
490707	1	3	6217	5.9	368	1958 1959	2 1	6100 6450	6.1 5.5	373 357	1 1	6190 7200	356 403	1 1	6235 6932	373 388	
491151	3	3	7960	5.4	429	1956 1958 1959	1 1 1	6440 8970 8470	5.3 5.7 5.2	339 512 437	1	8600	444	1	10464	554	
493362	8	18	8823	5.1	443	1951 1952 1953 1954 1955	6 5 2 3 2	9722 7252 6560 9793 7450	5.0 5.3 5.8 4.5 5.2	466 374 380 443 371	2 2 2 1	8200 8560 9155 10040	498 474 502 547	2 1	9320 9450	527 489	
493505	4	4	9090	5.2	470	1956 1957	2 2	8025 10155	5.1 5.4	404 536	2 2	9175 10700	444 573	1	8186	398	
496820	8	14	8783	5.0	434	1957 1958 1959 1960	1 6 4 3	8000 8440 9635 7673	5.6 5.1 4.9 5.2	445 420 464 391	1 6 4 3	11130 8088 7943 9527	556 424 460 480	1 5 2 3	7118 7650 9543 8774	393 398 476 445	
497599	9	13	9313	5.2	483	1957 1958 1959 1960	1 1 9 2	8520 9350 9348 9770	4.6 5.4 5.4 4.9	393 501 499 479	1 1 6 2	11200 9810 9067 9360	602 495 482 473	1 8 2	9592 6976 9609	484 464 484	
498138	8	15	7279	4.8	351	1953 1954 1955 1956 1957 1958 1959	1 3 4 2 2 2 1	8290 7707 6710 6405 7050 7085 7270	4.6 4.6 4.7 4.9 5.0 4.9 5.1	378 355 318 409 356 345 372	2 3 2 1 1	10510 7007 6855 6720 8240 6900	462 358 346 361 421 347	1 3 2 1 1	6911 8095 6775 6540 6333 6878	354 416 341 326 330 351	
498379	4	7	7983	5.2	409	1959 1960	5 2	8556 7375	4.9 5.2	416 385	4 2	8670 7495	446 380	3 1	8240 7543	418 370	
502114	14	20	9796	5.2	508	1957 1958 1959 1960	1 5 12 2	9010 8816 10022 10140	5.0 5.4 5.1 5.3	451 468 511 535	1 3 8 2	7390 8800 8695 9165	376 422 470 488	1 3 10 2	7826 8825 8738 9347	387 442 472 484	
504893	10	14	7393	5.5	406	1955 1956 1957 1958 1959 1960	1 1 3 4 2 3	5500 9360 6090 7583 8735 7303	5.4 4.7 6.2 5.6 5.5 5.5	296 442 377 423 477 403	1 3 2 2 2	8630 8293 7015 8125 8275	419 436 371 418 410	1 3 2 2	8044 6671 7085 9532	392 340 382 495	
505057	10	17	6645	5.4	358	1954 1955 1956 1957	2 7 5 3	6230 6784 7172 5863	4.7 5.3 5.6 5.7	288 361 402 329	1 2 2 3	7270 7075 7497	385 400 413	1 2 3	7848 8699 7111	424 449 383	
505549	3	5	9446	5.3	507	1959 1960	2 3	11580 8990	5.4 5.5	631 496	1 3	9900 7913	530 435	1 2	9592 9456	510 523	
506659	5	8	8166	5.6	457	1958 1959 1960	1 6 1	7140 8985 9570	5.9 5.4 5.7	424 487 549	1 4 1	8280 9155 9280	428 495 538	1 4 1	9352 9194 9854	501 487 552	
506697	11	12	8296	5.2	438	1957 1958 1959 1960	2 2 5 3	7710 7040 8352 9673	4.6 4.9 5.4 5.7	349 359 450 550	2 2 4 3	8070 8498 8600	435 426 476	2 4 2	8224 9382 9952	362 459 532	
506949	18	31	7449	5.0	372	1956 1957 1958 1959 1960	1 2 8 14 6	8850 7950 7670 7634 7530	4.9 4.6 5.1 4.9 5.2	435 361 388 380 396	1 5 9 6	8680 6966 7824 7915	460 376 412 410	1 6 10 1	8415 7654 7244 5505	438 404 427 296	
509120	3	4	7390	5.1	378	1958 1959	2 2	6610 8950	4.9 5.4	326 484	1 1	9770 9090	488 493	2 2	9287 4584	451 458	
509517	1	2	8645	5.3	456	1957 1958	1 1	8530 8760	5.4 5.1	464 448	1 1	9660 9620	511 479	1 1	9636 9352	545 501	
509520	1	1	6850	4.8	330	1958	1	6850	4.8	330	1	8570	388	1	9221	401	
510322	8	13	8137	5.5	448	1958 1959 1960	3 8 2	8227 8354 8955	5.2 5.7 5.2	428 475 474	2 7 2	6950 8344 7690	386 453 386	2 7 2	7391 7439 8039	391 450 428	
510369	10	14	7056	5.3	372	1957 1958 1959 1960	1 2 8 3	5800 6540 6950 7930	5.8 5.9 5.2 5.3	338 388 364 422	1 1 4 3	7010 7590 7568 8597	390 429 403 423	1 1 5	7990 7020 7682	469 382 402	
514622	7	12	7013	5.4	373	1957 1958 1959 1960	2 4 5 1	5465 7185 8128 7890	5.6 5.6 5.2 5.9	307 401 425 462	1 2 4 1	8440 8140 8495 9490	494 460 441 548	1 2 4 1	7990 7652 8867 9854	469 417 463 552	
514625	16	34	6924	5.6	384	1953 1954	2 2	7130 6845	5.4 6.2	385 424							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT. MILK LB.	MP. FAT LB.	AV. RECORDS NO.	YEARLY MILK LB.	HERO AVERAGE FAT LB.
JERSEY																
						1955	5	6736	5.5	368						
						1956	6	6817	5.7	385						
						1957	6	7342	5.5	399						
						1958	8	6911	5.5	378	1	6430	382	1	8219	469
						1959	4	6450	5.7	367	2	7545	424	2	7576	424
						1960	1	7520	5.3	396						
514628	1	1	9450	5.2	493	1958	1	9450	5.2	493	1	7510	395	1	9080	465
516718	3	3	8983	5.1	455	1960	3	8983	5.1	455	3	8553	435			
517082	1	1	8790	5.6	495	1960	1	8790	5.6	495	1	9100	509			
518863	6	6	7937	5.5	435	1959	5	7994	5.5	428	4	8588	439	5	8997	447
						1960	1	7650	6.1	465	1	8080	413			
519244	2	2	7765	5.8	437	1960	2	7765	5.8	437	1	7270	404			
520690	2	2	8385	5.8	482	1959	2	8385	5.8	482	2	8750	478	1	8971	487
522014	1	3	6193	5.3	330	1958	2	5770	5.4	314	1	6520	343			
						1959	1	7040	5.2	363	1	6690	347	1	6300	326
523421	6	6	8203	5.2	425	1959	2	7685	5.5	407	2	7665	387	2	8366	424
						1960	4	8463	5.1	434	4	7878	406	1	9058	494
524674	2	3	7990	5.2	413	1959	2	7760	5.2	406	2	7865	400	2	8600	436
						1960	1	8360	4.8	401	1	8620	450			
526993	10	14	8672	5.1	442	1957	1	6060	4.7	288						
						1958	3	8897	4.9	434						
						1959	6	8565	5.5	457	3	8530	451	1	10464	554
						1960	4	8668	4.8	412	4	8568	425	2	7876	411
527622	3	3	8937	5.3	467	1954	2	8490	5.5	460						
						1958	1	9830	4.9	480				1	8395	450
531272	16	23	8247	5.2	425	1955	1	9590	4.6	444						
						1956	1	8250	4.6	381						
						1957	1	8050	5.5	440						
						1958	7	8231	5.1	414	3	7513	387	2	6943	382
						1959	9	8439	5.4	457	7	7411	388	7	8215	428
						1960	4	9005	5.4	484	4	8530	466	1	9167	507
534381	4	6	6825	5.5	377	1958	2	6090	5.4	332	1	7100	375	1	5592	319
						1959	4	7403	5.6	411	3	8287	438	4	6254	439
534585	1	1	7380	6.6	484	1960	1	7380	6.6	484	1	8580	469	1	7434	396
537666	1	1	5950	5.0	296	1960	1	5950	5.0	296	1	8560	430	1	9058	494
538412	1	1	9340	4.8	446	1956	1	9340	4.8	446	1	8480	400	1	8044	392
538586	1	2	9885	5.1	503	1957	1	8890	5.0	446	1	7520	412	1	8894	439
						1958	1	10880	5.2	560						
540078	3	3	6357	5.0	328	1955	2	7625	5.4	408						
						1956	1	3820	4.4	170						
541597	4	4	7460	5.3	392	1956	1	7350	5.5	388	1	9530	522	1	9559	520
						1959	1	7300	5.0	364	1	7270	371	1	8131	411
						1960	2	7595	5.4	408	2	9025	407			
542027	1	1	8360	5.0	418	1960	1	8360	5.0	418	1	8030	416			
542914	1	1	6010	6.2	372	1959	1	6010	6.2	372	1	9860	572	1	9592	510
543195	6	8	8000	5.3	432	1958	2	6240	4.9	307						
						1959	5	9300	5.6	519	4	8973	468	4	8933	461
						1960	1	8770	5.6	488	1	7890	462	1	9854	552
546648	1	1	8740	5.1	442	1958	1	8740	5.1	442						
550015	1	1	5730	5.5	317	1959	1	5730	5.5	317	1	6740	348			
550722	1	1	11250	5.2	589	1957	1	11250	5.2	589						
550723	1	1	15770	5.9	924	1958	1	15770	5.9	924						
557267	3	5	9343	5.4	503	1958	2	9070	5.8	528						
						1959	3	9523	5.1	490	2	8735	457	1	8480	494
557268	7	11	7325	5.3	387	1958	4	6745	5.6	377	1	9800	554	1	9102	499
						1959	4	6715	5.5	355	2	6985	367	2	9352	498
						1960	3	7483	5.0	379	2	8020	452	2	8933	498
558300	1	1	3310	4.6	152	1959	1	3310	4.6	152	1	4720	254	1	8480	494
561487	1	2	4580	5.6	257	1959	2	4580	5.6	257	1	4160	200	1	8480	494



TABLE 15.--DAUGHTER-AVERAGE OF SIRELS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
46379	2	6	8520	4.4	371	1954	1	8050	3.9	310	1	10140	443			
						1955	2	9170	4.4	399	2	10375	455	2	9020	384
						1956	1	8290	4.8	395	1	10250	437	1	8415	373
						1957	2	8220	4.4	361	2	10500	417	2	9979	432
51258	1	4	11023	4.0	438	1953	1	9710	4.0	392						
						1954	1	9490	4.0	377	1	9160	359	1	8349	353
						1956	1	11580	4.0	458	1	9100	425	1	8731	356
						1957	1	13310	3.9	523	1	9500	383	1	9461	401
51694	1	1	7320	4.2	310	1954	1	7320	4.2	310	1	8380	364			
53913	1	1	8710	4.6	397	1956	1	8710	4.6	397						
54160	1	1	10590	4.3	458	1957	1	10590	4.3	458						
55722	1	3	9757	4.3	421	1953	1	9950	4.6	460						
						1954	1	9520	4.1	392						
						1955	1	9800	4.2	412	1	7900	386	1	8764	389
59456	6	7	8884	4.6	400	1956	1	10320	4.3	448						
						1957	3	8703	4.8	410	2	8875	362	2	6660	289
						1958	2	9045	4.5	402	1	9790	398	1	7543	326
						1959	1	9610	4.1	399	1	6360	268			
60138	3	12	8767	4.3	373	1952	1	7940	4.4	350						
						1953	2	8870	4.3	376						
						1954	1	8800	4.2	373						
						1955	2	8740	4.1	357						
						1956	2	9380	4.2	393						
						1957	1	9970	4.2	416						
						1958	3	8727	4.5	373				1	8284	334
61560	3	4	10650	4.2	444	1951	1	8890	4.2	369						
						1959	3	11550	4.2	485	2	11320	452	3	7568	434
62227	2	3	10695	3.8	398	1956	2	10630	3.7	393	1	7670	342	1	9538	390
						1957	1	11700	3.7	433						
62834	1	2	10320	4.4	455	1956	1	10020	4.4	440	1	8510	351			
						1958	1	10620	4.4	470	1	9880	402	1	7543	326
64541	2	3	9875	3.8	376	1958	3	9487	3.7	355	2	10930	442	2	9211	400
64656	1	5	8464	4.3	361	1955	1	10710	4.3	459	1	8330	344			
						1956	1	7180	4.4	314	1	9220	359			
						1957	1	8170	4.1	333	1	8750	361	1	8513	348
						1958	1	8380	4.3	361	1	8250	347	1	8186	338
						1959	1	7880	4.3	337	1	5870	245	1	8186	330
64773	5	7	10571	4.2	440	1957	1	8650	4.5	386	1	8780	361	1	6660	289
						1958	5	11654	4.0	467	3	10607	436	3	9211	400
						1960	1	10880	4.5	473	1	9270	395			
70627	1	3	11413	4.0	462	1956	1	10930	4.1	452						
						1957	1	10990	3.9	424						
						1958	1	12320	4.1	510						
70757	1	2	10395	5.0	518	1956	1	11250	4.9	548						
						1957	1	9540	5.1	487						
71762	4	4	8813	4.4	378	1956	2	9910	4.5	442	2	9410	380			
						1957	2	7715	4.3	314	2	9830	417	2	6660	289
72519	1	1	9250	3.9	365	1957	1	9250	3.9	365						
74637	1	1	4140	4.7	194	1954	1	4140	4.7	194						
79929	1	1	11490	4.0	461	1952	1	11490	4.0	461						
82405	4	12	10666	4.2	444	1956	1	10850	4.0	435	1	10520	408			
						1957	3	10157	4.3	436	3	10760	452			
						1958	2	10240	4.4	443	2	11170	452	2	9657	407
						1959	5	11252	4.1	462	3	12240	492	3	10660	435
						1960	1	11120	4.2	472	1	11270	447			
82516	1	1	11190	4.0	443	1956	1	11190	4.0	443						
85003	1	1	12480	4.0	503	1957	1	12480	4.0	503						
85338	1	2	7850	4.5	354	1955	1	6760	4.4	295						
						1956	1	8940	4.6	412						
89612	2	4	8648	4.4	375	1953	1	10620	4.4	466						
						1954	1	6540	4.5	295						
						1959	1	9270	4.1	378	1	10150	415	1	9429	384
						1960	1	8160	4.4	358	1	9950	424			
92669	2	4	11103	3.8	422	1958	1	12080	4.1	496	1	11040	428	1	8785	358
						1959	1	11020	3.7	411	1	11040	428	1	9429	374

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.	
						1960	BROWN 2	SWISS 10655	3.7	391	2	10540	388		2	10279	403
97881	1	1	7960	4.5	361	1957	1	7960	4.5	361	1	7620	304		1	8513	348
110355	2	2	10225	3.9	403	1956	1	8460	3.9	334							
						1957	1	11990	3.9	472							
119698	4	5	9408	4.2	393	1959	5	9488	4.2	398	4	10733	427		5	8735	423
121266	3	3	9987	4.2	422	1959	2	11040	4.2	459	1	9980	405		1	10224	403
						1960	1	7880	4.4	350							

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR						305-DAY CONTEMP. AV. YEARLY HERO AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.		RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
M. SHORTHORN																	
7858	1	1	11600	3.7	427	1957	1	11600	3.7	427							
13755	2	2	9210	4.1	371	1957	1	9590	3.9	374							
						1958	1	8830	4.2	367		1	8640	366		1	6398 266
32746	1	1	9260	4.3	398	1957	1	9260	4.3	398		1	9710	397		1	8033 331
38713	3	6	9684	4.0	380	1957	1	9540	3.7	356		1	10290	411		1	8033 331
						1958	2	10295	4.0	402		1	9950	405		1	6398 266
						1959	3	10723	3.8	414		2	10110	406		3	5745 326
38759	6	12	9321	4.4	411	1953	1	6970	4.9	340		1	9960	393		1	8851 349
						1954	1	9680	4.0	386		1	8200	302		1	8448 302
						1955	3	9613	4.5	429		3	8073	323		3	7260 286
						1956	2	8650	4.1	355		1	7420	286			
						1957	3	9987	4.5	455		2	10170	432		1	6998 234
						1958	1	12420	5.4	673							
						1959	1	12370	3.5	439		1	8690	327		1	9799 383
40145	2	2	8860	4.0	351	1956	2	8860	4.0	351		2	10190	424		2	8813 354
42837	7	11	7838	4.2	325	1955	1	7990	4.1	327		1	6660	238			
						1956	3	8087	4.2	338		1	12510	551			
						1957	1	6650	4.0	265		1	7420	286			
						1958	2	6250	4.5	281		1	10440	412		1	8273 332
						1959	4	8410	4.0	335		3	8750	365		2	3925 303
42839	12	16	7842	4.1	321	1954	3	6547	4.1	268		3	8117	325		3	7434 293
						1955	1	10470	4.3	445		1	8090	331		1	8153 326
						1956	4	8685	4.2	361		3	9453	391		1	6780 278
						1957	6	8025	4.1	332		6	10000	401		5	8033 331
						1958	1	8360	4.2	348		1	10690	416		1	6398 266
						1959	1	8650	3.7	320		1	10270	426			
48787	1	1	10330	3.8	394	1959	1	10330	3.8	394		1	9140	335		1	9799 383
59331	5	10	6766	3.9	269	1953	2	7515	3.7	279		1	8130	303		2	8246 338
						1954	2	5190	3.8	199		1	11360	441		1	7532 290
						1955	1	8850	4.1	362		1	7070	258			
						1956	2	5885	4.0	237		1	6990	262		1	7532 299
						1957	2	8390	4.0	340		1	9490	386		1	8033 331
						1958	1	7410	5.1	381							
71726	4	4	10290	4.1	423	1959	4	10290	4.1	423		3	9727	394		2	9592 378
85898	2	4	10055	3.6	353	1958	2	10030	3.6	360		2	10080	388		2	8273 332
						1959	1	10800	3.3	360		1	10090	393		1	9385 372
						1960	1	9360	3.5	332		1	9410	358		1	8764 338
156327	1	1	10990	4.2	458	1959	1	10990	4.2	458		1	6410	262			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERO RECORDS NO.	HERO AVERAGE MILK LB.	FAT LB.
AYRSHIRE																
69998	1	2	6510	4.3	280	1953	1	7580	4.1	312	1	7840	325			
						1955	1	5440	4.5	247	1	7030	266			
80261	1	1	6660	3.7	249	1956	1	6660	3.7	249	1	4720	191	1	6791	213

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER-AVERAGE BY SIRE						RECORD-AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
GUERNSEY																	
313997	2	6	8485	4.9	411	1953	2	9350	4.4	410	2	7955	389		2	8595	411
						1954	1	8500	4.7	401	1	7560	382	1	7706	387	
						1955	1	7050	5.1	362	1	7100	350		1	8099	408
						1956	2	8330	5.2	440	2	6450	343				
316080	1	1	3040	3.8	116	1953	1	3040	3.8	116							
320002	1	4	8973	4.1	363	1952	1	10260	3.9	403							
						1953	1	8150	4.2	344							
						1954	1	8830	4.0	350							
						1955	1	8650	4.1	355							
335156	1	3	6930	5.3	367	1953	1	7600	5.2	394	1	9130	498		1	8775	427
						1954	1	6850	5.0	346	1	8840	451	1	9647	474	
						1955	1	6340	5.7	361	1	8570	441	1	9330	475	
339328	1	3	7660	4.9	373	1952	1	8190	4.8	389	1	9920	460				
						1954	1	7710	4.8	367	1	7770	369	1	8001	377	
						1955	1	7080	5.1	364	1	7860	360	1	6813	327	
340809	1	4	7620	5.0	383	1953	1	6970	5.2	361							
						1954	1	10290	4.9	504							
						1956	1	7440	5.2	387							
						1957	1	5780	4.8	280							
349288	1	2	8790	4.8	423	1959	2	8790	4.8	423	2	9125	404		1	9886	403
352695	2	8	8226	5.2	409	1953	1	6290	5.8	366				1	10758	472	
						1954	2	8130	5.4	416	2	6595	345	2	8840	417	
						1955	2	8795	4.9	427	2	9010	401	2	8437	396	
						1956	2	7790	5.2	388	2	7675	344	2	6251	371	
						1957	1	10080	4.4	443	1	8590	350	1	7783	351	
357746	1	3	9167	5.8	526	1954	1	7720	5.9	454	1	8500	400	1	7270	359	
						1955	1	9750	5.9	576	1	9120	450	1	8099	408	
						1957	1	10030	5.5	547	1	8280	436				
359066	1	1	5900	4.9	286	1954	1	5900	4.9	286	1	9310	483		1	9647	474
365713	1	1	7650	4.7	361	1954	1	7650	4.7	361							
369733	6	8	5898	5.2	313	1954	1	8380	5.1	426							
						1955	1	5810	5.6	323							
						1956	2	6800	6.0	410	2	7685	365	1	8513	385	
						1957	3	5257	5.0	261	2	8630	329				
						1958	1	4660	4.5	212	1	7100	229	1	10126	413	
377693	1	1	8640	5.0	432	1954	1	8640	5.0	432							
382936	6	14	7110	5.3	371	1952	2	7650	4.9	372	1	9410	383				
						1953	3	6680	4.9	326	1	7360	276	1	9712	390	
						1954	3	7427	5.0	372	2	8545	372	2	8606	379	
						1955	1	4770	6.3	301	1	11480	465	1	8164	365	
						1956	3	5753	5.3	297	2	9555	375	1	8513	385	
						1957	1	9840	5.6	555	1	6690	369				
						1959	1	9430	5.6	530	1	8830	458				
385567	1	1	9130	5.1	469	1957	1	9130	5.1	469	1	8510	425				
395047	1	3	9837	5.3	516	1954	1	10250	4.9	506	1	8440	439	1	9647	474	
						1955	1	9420	5.5	516	1	9020	447	1	9330	475	
						1956	1	9840	5.4	527	1	9300	472	1	8840	444	
400003	2	2	8960	4.3	379	1957	2	8960	4.3	379	1	10140	375	1	9538	401	
400315	1	1	6230	4.4	273	1958	1	6230	4.4	273	1	7760	350	1	8456	367	
401063	6	16	7952	5.1	406	1950	1	9970	5.3	532							
						1951	2	9340	5.3	490							
						1952	3	9710	5.3	505							
						1953	4	7368	5.0	366							
						1954	5	7274	5.3	382							
						1956	1	4100	5.8	236							
403571	7	13	7712	4.9	374	1954	1	9210	4.5	411							
						1955	4	8288	4.8	400	3	10283	445	3	8746	395	
						1956	4	6728	4.6	310	4	9590	414	3	9167	400	
						1957	3	6440	5.2	329	3	10017	453	1	9538	401	
						1958	1	8750	5.7	503	1	8670	460	1	7903	433	
423077	1	2	7015	5.0	344	1957	1	8740	4.9	425	1	11130	420	1	9538	401	
						1958	1	5290	5.0	263	1	10600	386	1	10126	413	
435547	1	1	6250	5.4	340	1958	1	6250	5.4	340	1	7770	354	1	8458	367	
444052	2	2	6475	5.4	350	1954	1	6060	5.3	323	1	8470	426	1	7020	358	
						1957	1	6890	5.5	377	1	8750	435				



TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY			CONTEMP.	AV.	YEARLY HERO	AVERAGE	
											RECORDS NO.	MILK LB.	FAT LB.			RECORDS NO.	MILK LB.	FAT LB.
GUERNSEY																		
454429	1	1	9020	4.4	394	1955	1	9020	4.4	394								
458101	1	1	6460	4.7	304	1958	1	6460	4.7	304	1	7130	353			1	8775	388
466643	1	1	7280	5.8	422	1957	1	7280	5.8	422	1	9610	441			1	9243	483
490792	1	1	7470	4.6	342	1959	1	7470	4.6	342	1	10550	449					

TABLE 15.--DAUGHTER-AVERAGE OF SIRELS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.	
HOLSTEIN																	
739097	13	42	10465	3.7	387	1953	8	10304	3.8	393	8	11619	416	7	11128	399	
						1954	12	10051	3.8	378	11	11224	395	10	11088	392	
						1955	11	10824	3.8	405	11	11745	424	11	11511	409	
						1956	5	12136	3.7	446	5	12454	439	4	12075	441	
						1957	4	11810	3.5	415	4	13173	453				
						1958	2	11835	3.5	414	2	12635	431	2	11396	401	
750270	1	2	14765	3.7	549	1957	1	15770	3.9	613	1	13780	481				
						1958	1	13760	3.5	484		1	14030	457	1	12938	455
752584	1	1	13030	3.4	440	1952	1	13030	3.4	440							
757596	7	27	11723	3.6	422	1953	5	10858	3.5	378	4	11340	407	2	11391	411	
						1954	6	12060	3.6	439	4	11028	383	4	11630	413	
						1955	6	11500	3.7	423	4	11135	397	4	10227	364	
						1956	6	11258	3.6	404	5	10934	389	5	10889	384	
						1957	2	13160	3.5	467	1	13220	447				
						1958	2	12560	3.6	448	1	13240	448	1	13080	446	
757597	2	3	11090	3.8	411	1953	1	10610	3.5	372	1	12980	447				
						1954	1	12390	3.1	381	1	12860	459	1	12230	420	
						1955	1	10680	4.2	445	1	13140	464	1	11707	414	
771582	2	8	8996	4.0	357	1951	1	9900	4.1	410	1	8930	250				
						1952	1	11320	4.4	494							
						1953	1	8490	4.4	373	1	11360	372	1	10747	353	
						1954	2	8450	3.9	325	2	11280	405	1	10377	371	
						1955	2	9535	3.8	363	2	11350	426	2	10541	370	
						1956	1	7710	4.0	307	1	10170	380	1	9963	395	
791357	1	1	10530	2.8	293	1951	1	10530	2.8	293							
791874	7	21	12162	3.4	417	1954	5	11476	3.4	394	5	10562	374	5	10863	386	
						1955	4	13180	3.4	451	3	11590	415	3	11434	405	
						1956	4	12450	3.5	436	4	11908	418	4	11808	429	
						1957	4	11180	3.6	400	4	10863	382	2	10181	376	
						1958	4	13278	3.5	435	4	12960	437	4	12238	423	
796258	2	4	15918	3.4	537	1953	1	13480	3.5	478	1	12590	441	1	9548	325	
						1954	1	9370	3.3	308	1	10070	389	1	11282	406	
						1955	1	20900	3.2	661	1	8410	337				
						1956	1	19920	3.5	698				1	12252	407	
796309	1	1	10440	3.7	384	1958	1	10440	3.7	384	1	12740	480				
813170	4	7	12081	4.1	491	1953	2	13015	4.3	555	1	11840	438	1	11238	385	
						1954	1	11450	3.8	430	1	10560	372	1	13222	453	
						1955	2	9855	4.0	386	2	11045	385	2	10355	369	
						1956	1	13150	3.8	506	1	13090	477				
						1960	1	12560	3.6	455	1	12730	451	1	12677	444	
819478	46	81	11919	3.5	416	1953	1	9780	3.9	383	1	11830	421	1	11391	411	
						1954	7	11356	3.6	403	7	11074	394	7	10724	392	
						1955	14	12804	3.4	436	14	11506	419	12	11173	397	
						1956	24	12090	3.5	415	23	11830	426	22	11318	416	
						1957	15	12525	3.4	420	15	12667	449	1	9538	401	
						1958	14	10731	3.5	370	14	12053	427	13	11661	415	
						1959	5	12292	3.8	456	5	12000	443	5	12097	429	
						1960	1	14160	3.7	519	1	12990	470	1	11761	424	
820661	2	8	10380	3.5	352	1950	1	11440	3.2	366	1	9620	320				
						1951	2	11710	3.6	408	1	8570	238				
						1953	1	12400	3.1	386	1	10300	369	1	10747	353	
						1954	1	12870	3.2	406	1	11500	414	1	10377	371	
						1955	1	11380	3.2	361	1	12980	483	1	12110	422	
						1956	1	12510	3.0	375	1	12900	458				
						1957	1	12820	2.9	371	1	12980	469				
824237	6	14	11256	3.5	384	1951	2	12620	3.4	422							
						1952	2	13940	3.5	460	1	12770	463				
						1953	3	10240	3.4	347	3	10707	375	3	11318	379	
						1954	3	10283	3.3	340	3	10890	382	3	10966	392	
						1955	2	11865	3.7	433	2	12830	466	2	12241	439	
						1956	1	13230	3.5	457	1	13030	465	1	11914	423	
						1957	1	13020	3.2	417	1	14270	460	1	13309	468	
824340	18	46	12174	3.8	462	1953	3	11550	4.1	470	3	11627	417	3	11391	411	
						1954	9	11724	3.7	434	9	11171	387	8	10956	383	
						1955	13	12397	3.8	473	13	11320	391	10	10999	387	
						1956	7	11676	3.9	453	7	11994	421	7	11705	418	
						1957	9	12210	3.7	457	9	12170	431	5	10397	370	
						1958	4	13888	3.8	523	3	13533	483	2	12595	449	
						1959	1	8770	3.3	288	1	10460	368	1	12611	424	
828803	3	12	11838	3.5	405	1953	3	10397	3.5	359	3	11983	426				
						1954	2	13825	3.5	470	2	12730	418	2	9838	338	
						1955	3	12797	3.3	424	3	11307	390	3	12022	397	
						1956	3	10947	3.6	389	3	11803	407	3	12099	410	
						1957	1	10280	3.6	368	1	13270	440				
831321	59	136	10978	3.7	407	1952	1	9910	3.7	371	1	11150	453				

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
						HOLSTEIN										
831861	5	14	11554	3.4	392	1953	8	11736	3.9	451	8	11269	407	5	11391	411
						1954	23	9912	3.7	366	23	11022	384	22	11123	394
						1955	27	10578	3.8	400	27	11426	409	26	10641	380
						1956	35	11326	3.8	425	35	12168	423	32	11423	412
						1957	26	11378	3.7	415	26	12840	443	8	10309	386
						1958	13	9962	3.8	381	9	12739	440	9	12190	421
						1959	3	10547	3.6	377	3	12237	437	3	11623	421
834649	2	6	11018	3.6	393	1952	5	11552	3.5	398	3	11187	403			
						1953	2	10055	3.3	330	2	10600	370	2	11603	392
						1954	3	12220	3.4	413	3	10930	385	3	10966	392
						1955	1	14070	3.3	471	1	11800	426	1	12110	422
						1956	2	11855	3.2	382	2	13045	460	1	11914	423
						1957	1	10750	3.1	338	1	13110	471			
837973	1	1	7700	3.9	298	1952	1	10000	3.7	368						
						1953	1	10550	3.5	373	1	10840	372	1	10747	353
						1954	1	12450	3.8	467	1	10440	370	1	10377	371
						1955	1	10990	3.5	390	1	10760	382	1	12110	422
						1956	1	11390	3.4	387	1	12700	405			
						1957	1	14800	3.2	469	1	12660	424			
838718	42	83	10072	3.6	358	1959	1	7700	3.9	298	1	10290	351			
						1953	2	11265	3.6	403	1	9540	331			
						1954	22	10596	3.5	369	19	11262	396	19	11258	395
						1955	29	9897	3.6	353	29	11809	425	28	11055	391
						1956	14	9569	3.7	346	14	12082	424	12	11460	410
						1957	11	11680	3.5	416	11	11862	422	6	11509	415
						1958	4	9603	3.5	344	4	11300	390	3	11271	396
841585	1	2	15025	3.1	465	1954	1	14430	3.2	459	1	11390	410	1	10377	371
						1955	1	15620	3.0	470	1	11640	426	1	12110	422
						1954	2	9560	3.5	337	1	7680	272	1	9374	323
845267	2	4	9012	3.3	292	1953	1	13910	3.0	419	1	12030	469			
						1954	2	8550	3.3	276	2	10980	399	2	10197	368
						1955	1	8980	3.4	305	1	10440	384	1	10093	366
847176	7	22	11015	3.7	405	1953	7	11006	3.8	412	5	11670	418	5	11391	411
						1954	6	10708	3.7	390	5	10962	381	5	10965	388
						1955	4	11693	3.6	416	3	11077	427	3	11434	405
						1956	2	12095	3.4	410	1	13370	462	1	12426	449
						1957	2	11050	3.6	388	1	13430	460			
						1958	1	10780	3.5	374						
850298	1	2	11635	4.4	514	1957	2	11635	4.4	514	2	13445	478	2	12252	455
852926	9	22	8410	3.9	320	1953	4	9325	3.8	350	4	11135	403	3	11325	395
						1954	8	8969	3.8	339	8	9234	341	7	10005	361
						1955	7	8131	3.9	309	6	8173	301	6	9200	341
						1956	2	8635	3.8	320	2	10145	358	1	7140	270
						1957	1	5020	3.1	154	1	8960	295			
858562	1	7	12816	3.8	494	1952	1	13660	4.1	563	1	9740	340			
						1953	1	8810	3.5	312	1	8830	314	1	10747	353
						1954	1	12210	4.7	578	1	11550	402	1	10377	371
						1955	1	13460	3.8	515	1	12820	471	1	12110	422
						1956	1	13200	3.5	458	1	12830	450			
						1957	1	15140	3.9	592	1	14110	542			
						1959	1	13230	3.3	443	1	13150	478	1	13135	463
858839	1	2	14035	3.7	515	1955	1	13670	4.0	541	1	10030	373	1	7946	279
						1956	1	14400	3.4	488	1	10680	373	1	10322	359
859238	1	1	12640	3.2	408	1959	1	12640	3.2	408	1	11140	386	1	12404	443
863177	2	7	10216	3.7	371	1952	2	14390	3.5	469	2	14315	488			
						1953	1	13590	3.5	468	1	12770	461	1	14552	474
						1954	1	14280	3.6	514	1	11620	387	1	13538	462
						1955	2	9480	3.7	350	2	10835	375	2	11287	406
						1956	1	9980	3.7	366	1	12660	433			
864818	3	6	7802	3.6	280	1953	1	10770	3.6	383	1	10680	376			
						1954	1	6180	3.4	210						
						1955	3	8300	3.7	304	3	3450	306	3	9211	324
						1956	1	7830	3.7	291	1	8410	309	1	8230	293
868927	2	7	11711	3.6	419	1953	2	12525	3.6	442	1	13180	423	1	12459	431
						1954	2	11525	3.7	420	1	12370	421	1	12143	434
						1955	2	11830	3.5	416	2	10315	399	1	12241	439
						1956	1	11060	3.8	424	1	11610	400			
872945	5	9	11825	3.5	414	1954	2	10390	3.5	344	2	12125	428	2	10999	372
						1955	2	10270	3.7	371	2	12560	450	2	11184	391
						1956	1	12570	3.8	472	1	13110	463	1	11914	423
						1957	3	13580	3.4	461	3	14190	484	3	12731	445
						1958	1	12600	3.9	490	1	14510	501	1	13767	504
873324	2	3	15148	3.5	524	1954	1	11070	3.2	546	1	11960	433	1	10377	371
						1956	1	10520	3.1	321	1	12920	422			

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1959																
							1	16500	3.7	614	1	13190	461			
877452	2	4	6850	4.1	277	1952	1	6050	4.1	246						
						1953	1	6390	3.8	244	1	10010	379	1	8873	317
						1954	1	8480	4.0	342	1	7420	286	1	9320	336
						1955	1	8080	4.1	332	1	8500	332	1	8230	314
878276	59	104	12817	3.5	441	1954	4	10583	3.6	381	4	10703	401	2	9118	347
						1955	15	11437	3.7	419	15	11610	417	13	11196	393
						1956	29	13255	3.5	460	26	12538	442	23	12053	430
						1957	54	13524	3.4	455	32	12515	435	11	11402	418
						1958	17	12784	3.4	429	12	12781	443	10	12422	430
						1959	4	15053	3.5	557	3	12737	460	4	12489	446
						1960	1	15470	3.6	591	1	10750	408	1	11859	441
884249	1	2	7545	3.4	257	1954	1	5080	3.4	175	1	7880	279	1	9374	323
						1955	1	10010	3.4	339	1	9960	359	1	9211	324
886818	3	6	12602	3.7	460	1956	2	13930	3.8	522	2	11105	397	2	11260	395
						1957	2	11025	3.6	394	2	11935	428	2	10757	368
						1958	2	13175	3.7	479	2	10765	348	1	13080	446
891547	1	2	12890	3.7	478	1953	1	12990	3.6	474	1	8150	287	1	10747	353
						1954	1	12790	3.8	482	1	12320	439	1	10377	371
892874	2	8	11480	3.6	404	1953	1	14910	3.2	471	1	12370	419	1	9548	325
						1954	1	10720	3.4	368	1	10680	382	1	13222	453
						1955	2	11365	3.6	404	2	10950	400	2	9238	328
						1956	2	10240	3.8	382	2	10275	357	1	10322	359
						1957	1	7640	4.0	385	1	11090	401	1	10660	383
						1958	1	9540	3.7	556	1	10770	398	1	10366	371
895906	3	6	10197	3.5	353	1953	1	10460	3.5	371						
						1954	1	12290	2.9	360	1	11390	411	1	11369	421
						1955	1	11920	3.8	449	1	11400	401	1	7946	279
						1956	2	7855	3.6	275	2	10365	371	2	10688	377
						1957	1	12410	3.2	596	1	11620	427	1	12154	441
897534	5	12	7915	3.8	302	1953	1	11280	3.8	435	1	9740	357	1	5960	320
						1954	5	7802	3.9	307	5	9176	349	5	9651	350
						1955	3	6687	3.8	259	3	7450	295	3	8924	346
						1956	2	8995	3.6	317	2	8775	351	2	7876	316
						1957	1	9150	3.6	333	1	10770	430	1	8840	354
898594	2	7	13625	3.6	489	1953	1	11250	3.7	411	1	11520	414	1	11391	411
						1954	2	12780	3.6	461	1	10920	380	1	10965	388
						1955	1	11350	3.8	436	1	11770	422	1	11434	405
						1956	1	12160	3.5	429	1	13360	462	1	12426	449
						1957	1	12560	3.7	460	1	13360	459			
						1958	1	13620	3.5	473	1	13220	450	1	13080	446
898622	13	27	12556	3.9	482	1956	6	13023	3.7	486	6	12665	441	6	11721	422
						1957	12	12986	3.9	500	12	12510	434	4	11290	420
						1958	7	12386	3.8	476	5	11966	414	5	11303	409
						1959	2	12445	4.2	519	2	12785	476	2	11543	421
901196	3	5	11081	3.6	399	1954	1	12030	3.8	457	1	12190	411	1	12143	434
						1955	1	10920	3.9	431	1	13020	477	1	12110	422
						1956	1	10160	3.9	396	1	13110	456			
						1957	1	10880	3.7	403	1	13100	467			
						1959	1	10560	3.1	550	1	11550	415	1	8785	287
905404	10	14	9588	3.7	352	1952	2	7920	3.8	301	1	10690	387			
						1953	3	9677	3.4	329	1	8660	313	1	10747	353
						1954	5	9392	3.8	353	3	12387	438	3	10657	373
						1955	1	8010	3.9	313						
						1956	1	13890	4.0	557	1	12540	440	1	13124	468
						1957	2	11050	3.7	406	2	11305	400	1	13843	483
910828	5	13	11151	3.6	395	1953	1	12040	3.4	412	1	10470	363	1	10747	353
						1954	3	13380	3.6	483	3	10800	384	3	10377	371
						1955	4	10275	3.6	373	4	12110	434	4	11802	411
						1956	2	11730	3.4	400	2	13245	469	1	11914	423
						1957	2	10725	3.6	382	2	12850	455	1	12688	444
						1958	1	11320	3.3	575	1	13150	481	1	13472	469
922420	6	7	9047	4.1	366	1954	3	6840	4.2	276	3	11960	415	3	11158	391
						1955	2	10360	4.2	425	2	12250	438	2	11184	391
						1956	1	11440	3.9	447	1	12630	463	1	10497	400
						1957	1	13710	3.9	537	1	13640	480	1	11042	384
925394	1	3	11327	3.8	431	1955	1	12110	4.0	481	1	12010	421	1	11216	378
						1956	1	11340	3.8	426	1	12780	465	1	10410	374
						1957	1	10530	3.7	387	1	11350	398	1	10061	361
927863	5	16	10247	3.6	361	1953	2	11480	4.2	482	2	11040	383			
						1954	3	10520	3.5	362	3	10803	386	2	13222	453
						1955	4	10640	3.5	366	4	11293	412	4	8821	318
						1956	4	7890	3.3	258	4	10683	379	4	11050	369
						1957	2	9570	3.4	324	2	10085	377	2	10470	374
						1958	1	8840	3.3	294	1	10760	353	1	10366	371

RECORD AVERAGE BY SIRE BY FRESHENING YEAR

SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
933201	7	9	12715	3.2	403	1955	1	13030	3.2	417	1	12610	448	1	10126	343
						1956	2	12200	3.4	408	1	13160	456	1	11401	405
						1957	3	14207	3.2	451	2	13225	494	1	12688	444
						1958	1	18200	2.6	466						
						1959	2	10545	3.3	350	2	13415	463	1	13200	458
933248	8	16	13413	3.6	492	1954	2	11330	3.3	372	2	11240	395	2	10955	367
						1955	3	14310	3.7	525	2	12387	442	3	11852	408
						1956	3	12630	3.9	493	3	12340	449	3	12306	434
						1957	2	13820	3.7	514	2	13040	467	2	13266	464
						1958	4	14920	3.7	558	3	14807	554	3	13570	481
						1959	1	12350	3.7	459	1	13240	473			
						1960	1	13020	4.0	518	1	13240	473	1	13135	463
933930	1	1	10810	3.3	360	1959	1	10810	3.3	360						
939182	17	26	11475	3.4	389	1953	1	8550	3.6	310	1	13760	446	1	13462	465
						1954	3	10490	3.3	346	3	11580	411	3	10657	373
						1955	7	11441	3.4	391	5	11930	428	5	11467	397
						1956	6	11725	3.4	395	6	12460	435	4	11840	411
						1957	7	12033	3.4	408	6	14028	470	2	11865	414
						1958	2	13195	3.6	477	1	11440	410	1	13472	469
944770	8	24	12452	3.5	426	1954	3	14137	3.4	471	3	11333	440	3	10875	385
						1955	3	12031	3.5	418	8	11245	409	8	10525	374
						1956	6	12322	3.5	425	6	11292	403	6	11413	403
						1957	3	13020	3.4	452	3	11793	424	2	11407	412
						1958	3	12380	3.3	404	3	12000	419	3	11852	423
						1959	1	12730	3.2	412	1	10710	368	1	10442	373
948424	3	6	12567	3.9	491	1955	2	12480	3.9	490	2	13670	467	2	12922	438
						1956	1	13820	3.9	545	1	12550	408			
						1957	1	13040	4.0	526	1	12970	459			
						1958	1	12660	3.9	499	1	12980	466	1	13472	469
						1959	1	11440	3.5	403	1	13220	465	1	13298	467
952437	5	13	12120	3.6	430	1953	1	11330	3.2	365	1	7760	250			
						1954	1	11120	3.1	346	1	14280	507			
						1955	1	12550	4.0	500	1	9480	374	1	8971	318</



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED, BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
984796	9	11	12170	3.8	457	1955	1	12980	3.6	463	1	12610	443	1	10126	343
						1956	2	9875	3.7	358	2	13445	489	2	12519	446
						1957	3	13070	3.7	486	3	14080	487	3	11798	412
						1958	2	14295	3.9	544	2	14375	538	1	13472	469
						1959	3	12667	3.9	485	3	12320	442	3	12960	448
984801	10	17	12582	3.4	422	1953	1	11960	2.9	347						
						1954	4	11640	3.5	411	4	11590	393	4	10710	374
						1955	2	12495	3.6	445	2	11605	417	2	11118	383
						1956	2	12690	3.4	426	2	12345	417	1	11401	405
						1957	3	13977	3.1	435	3	7763	301	2	12241	436
						1958	1	11380	4.3	486	1	14760	523			
						1959	3	11727	3.6	421	2	12855	458			
						1960	1	16050	2.8	454	1	8230	309			
989718	56	112	12037	3.5	422	1954	5	9944	3.5	349	3	11033	387	4	11080	400
						1955	14	11414	3.6	414	14	11177	399	14	10596	381
						1956	29	11769	3.6	417	29	11960	422	27	11648	413
						1957	33	12703	3.5	436	33	12791	442	18	11714	420
						1958	25	11338	3.5	395	17	12622	444	13	12262	420
						1959	5	12002	3.7	441	4	12068	442	4	11873	440
						1960	1	11990	3.8	455	1	13300	473	1	11761	424
990861	4	6	13134	3.4	451	1956	1	13940	3.7	520	1	12000	419	1	10497	400
						1957	3	13370	3.3	447	3	13430	479	2	10988	416
						1958	2	11320	3.4	385	2	14195	473	2	12028	431
990952	27	30	13711	3.6	491	1957	6	14357	3.4	489	6	13412	468	1	12808	453
						1958	9	14531	3.5	502	9	13109	462	7	12993	460
						1959	11	13465	3.7	494	11	13685	507	11	13111	479
						1960	4	12960	3.9	502	4	13398	510	4	12549	473
992858	4	6	15248	3.8	571	1958	3	16253	3.6	587	3	13717	500	2	13472	469
						1959	3	15550	3.7	576	3	12457	447	1	13135	463
997481	1	1	11690	3.7	430	1959	1	11690	3.7	430	1	12960	470	1	11990	434
999636	3	3	12017	3.6	428	1955	2	12785	3.6	453	2	12770	449	2	11707	414
						1958	1	10480	3.6	378	1	10470	365			
1001512	1	1	12600	3.5	442	1958	1	12600	3.5	442	1	13370	486	1	8360	300
1003960	11	20	13001	3.5	452	1956	5	13218	3.7	493	5	12344	428	4	12083	436
						1957	9	13068	3.4	443	9	12988	444	2	12350	437
						1958	6	12210	3.3	411	3	12333	428	2	13157	455
1004966	13	16	13414	3.4	453	1956	3	12023	3.5	422	3	11410	414	3	11191	395
						1957	4	11895	3.2	381	4	11490	414	1	11282	403
						1958	6	15478	3.4	527	6	13223	456	5	12716	435
						1959	3	12310	3.2	394	3	12393	434	3	11594	398
1007029	9	14	11293	3.7	412	1955	1	11430	3.5	399	1	11380	411	1	10126	343
						1956	3	10400	3.6	372	3	12587	429	3	11655	405
						1957	5	11068	3.5	387	5	12546	448	4	11628	425
						1958	4	12378	3.9	465	4	14160	503	4	13620	487
						1960	1	14780	3.4	500	1	13040	473	1	13135	463
1010660	4	5	11735	4.0	461	1958	1	8550	4.5	387	1	16980	659	1	13472	469
						1959	3	12893	3.8	491	3	13253	460	1	13135	458
						1960	1	10120	3.7	373	1	13290	473	1	13135	463
1016135	1	1	10260	3.8	393	1956	1	10260	3.8	393	1	17380	581	1	13908	479
1024958	2	2	10770	3.4	354	1955	1	8640	3.5	300	1	11490	400	1	10878	376
						1956	1	12900	3.2	407						
1025338	4	5	11399	3.4	380	1956	1	7430	3.9	288						
						1957	2	11415	3.2	362	1	9400	337			
						1958	1	11650	3.0	345						
						1959	1	15990	3.4	550	1	10640	378	1	8785	287
1025361	1	3	9363	3.5	333	1954	1	10660	3.7	394	1	9160	343			
						1955	1	8950	3.4	308	1	8900	324	1	8240	302
						1956	1	8480	3.5	298	1	9180	299	1	8655	310
1030195	4	7	11609	4.0	463	1957	3	11943	4.1	499	3	13287	470	3	12524	437
						1958	2	13935	4.1	562	2	15375	519	1	13767	504
						1959	2	11860	3.8	451	2	14465	500	1	15609	546
1038986	3	4	12685	3.7	468	1959	2	11815	3.8	437	2	11890	428	2	12050	439
						1960	2	14520	3.6	522	1	14260	539	2	13353	496
1043856	4	4	15388	3.8	584	1955	1	14230	4.0	570	1	12890	466	1	12110	422
						1958	1	19190	4.1	796	1	14050	500			
						1959	1	16610	3.2	528	1	12910	458	1	13298	467
						1960	1	11520	3.8	441						
1045403	1	1	15700	3.8	591	1959	1	15700	3.8	591	1	15190	555	1	14759	523
1054406	2	3	14570	4.0	576	1959	3	14150	3.9	550	2	15190	581	2	12437	459
1055483	1	1	10400	3.6	370	1954	1	10400	3.6	370						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
1058067	2	4	8614	3.8	330	1956	2	10210	3.9	400	2	11940	419	2	11189	408
						1957	1	8780	3.6	312	1	13420	460			
						1958	1	10440	3.7	390						
1064738	10	13	13488	3.7	489	1956	1	13000	4.0	515	1	13760	484	1	12186	427
						1957	5	13530	3.9	512	5	10518	382	4	9519	392
						1958	6	13302	3.6	456	5	12526	431	5	12489	439
						1959	1	13680	3.8	515	1	14210	516	1	12055	411
1065743	1	1	14750	3.5	517	1956	1	14750	3.5	517	1	12480	494			
1072328	16	22	13827	3.6	496	1956	2	13645	3.6	491						
						1957	6	13802	3.6	496	4	11825	410			
						1958	7	13427	3.5	464	5	12872	443	4	12145	423
						1959	7	14097	3.6	515	7	13634	482	7	12275	429
1072329	6	9	11692	3.6	417	1955	1	12450	3.7	463	1	12670	445	1	10126	343
						1957	3	12807	3.5	448	3	12390	444	2	12443	434
						1958	3	13350	3.7	494	3	13697	484	2	13298	472
						1959	2	11550	3.4	394	2	12665	466	2	14050	495
1072342	1	1	13290	3.2	420	1960	1	13290	3.2	420	1	9460	359	1	8186	296
1079168	5	7	14074	3.4	486	1957	1	15150	3.7	559	1	13720	502	1	13843	483
						1958	2	13700	3.4	464	2	13575	514	2	13472	469
						1959	3	12850	3.3	430	3	13077	467	3	13792	484
						1960	1	18700	3.3	622	1	16310	575			
1079866	3	5	11808	3.5	412	1955	3	11920	3.6	424	2	11595	419	2	11434	405
						1956	1	15740	3.4	541	1	13860	470	1	12426	449
						1957	1	13610	3.2	434	1	13800	475			
1081684	1	2	12615	4.6	578	1957	1	12110	4.7	567	1	12480	503			
						1959	1	13120	4.5	588	1	12560	490	1	12208	447
1090376	4	5	12131	3.5	421	1956	3	11450	3.5	402	3	12477	442	3	10464	388
						1957	2	12480	3.4	412	1	14520	492	2	12999	442
1092428	19	27	12283	3.7	456	1954	1	9780	3.7	367						
						1955	1	8510	3.6	308						
						1956	3	13600	3.3	446	3	12287	427	3	11601	422
						1957	9	11640	3.8	440	9	12024	433	2	9538	401
						1958	7	12330	3.5	437	6	12990	463	7	10727	456
						1959	4	13813	4.1	567	4	13410	495	3	13258	495
						1960	2	15565	3.7	569	1	11550	422			
1102400	5	8	13722	3.5	477	1956	5	13176	3.5	455	5	10680	396	4	10829	413
						1957	3	14947	3.6	531	2	11375	400			
1106775	2	2	13825	3.7	510	1959	1	12070	3.9	476	1	15190	583	1	12437	459
						1960	1	15580	3.5	543	1	15210	596	1	12437	459
1107908	2	3	11730	3.8	440	1957	1	15220	3.7	561	1	14000	499	1	12808	453
						1958	2	11005	3.7	409	2	12850	448	2	11990	425
1111075	1	1	14340	3.8	538	1959	1	14340	3.8	538	1	12140	446	1	11990	434
1116800	3	4	11947	3.4	396	1957	1	5240	3.8	197	1	11450	441	1	9538	401
						1958	1	14920	3.5	529	1	13210	447	1	13080	446
						1959	1	14790	2.8	420	1	10770	337	1	10126	338
						1960	1	16570	3.0	502	1	10290	372	1	11053	354
1117014	11	14	13944	3.6	495	1957	4	12115	3.8	441	3	12437	434	2	11173	427
						1958	5	14114	3.5	503	5	11966	431	5	12245	447
						1959	4	15478	3.5	542	4	14570	541	3	13258	495
						1960	1	17860	3.4	603	1	14830	556	1	15315	573
1119514	1	1	17400	3.9	680	1960	1	17400	3.9	680	1	14950	577	1	12437	459
1130589	4	4	8788	3.8	331	1956	2	8815	3.8	335	2	12550	457	2	11189	406
						1957	2	8760	3.8	327	2	11785	434	1	12688	444
1132993	1	1	20470	3.9	796	1959	1	20470	3.9	796	1	14670	566	1	12437	459
1135651	3	3	10223	4.0	408	1959	3	10223	4.0	408	3	12783	460	1	12491	443
1140661	1	1	9920	3.7	371	1958	1	9920	3.7	371	1	11260	394	1	10562	373
1146343	1	1	15750	3.6	565	1957	1	15750	3.6	565	1	13470	478	1	11042	384
1152211	8	11	12594	3.7	455	1956	1	9250	3.6	330						
						1957	4	10868	3.7	401	3	13317	492	2	12726	455
						1958	4	14895	3.4	500	4	12538	426	2	13418	477
						1959	1	12190	4.1	499	1	12720	462	1	11674	405
						1960	1	12530	4.2	531	1	13090	470	1	11761	424
1153646	3	3	13963	3.5	497	1959	2	13120	3.6	478	2	13540	495	2	12813	460
						1960	1	15650	3.4	536	1	16230	521	1	15315	544
1154142	11	11	10135	3.8	389	1955	2	9130	3.9	358	2	11415	424	2	9456	352

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
						1956	4	8695	3.6	330	4	11155	406	2	8371	310
						1958	2	10735	3.9	424	2	12060	425	2	10677	371
						1959	3	12323	3.8	466	3	12420	449	3	12615	466
1167510	2	2	11845	3.8	453	1958	2	11845	3.8	453						
1175561	1	1	14800	3.6	538	1959	1	14800	3.6	538	1	10840	380		1	8785 287
1178237	1	1	9720	3.9	376	1957	1	9720	3.9	376						
1189010	2	2	13645	3.5	478	1959	2	13645	3.5	478	2	11950	419		2	12895 455
1209326	3	5	8702	4.2	356	1955	1	9270	3.9	366						
						1956	2	9540	4.1	382	1	7660	275		1	8371 310
						1958	1	8200	4.1	338	1	10750	397		1	9690 343
						1959	1	10150	4.2	421	1	10220	376		1	10540 387
1211376	6	8	11562	3.8	435	1957	4	11713	3.7	437	3	11590	416		2	9605 338
						1958	1	12170	3.7	447	1	9600	367		1	11565 389
						1959	3	11427	3.6	417	3	11457	409		3	11656 424
1216909	1	1	13530	3.5	468	1959	1	13530	3.5	468	1	12150	449		1	11990 434
1222973	1	1	12470	4.0	494	1956	1	12470	4.0	494						
1224123	1	1	12440	4.2	526	1960	1	12440	4.2	526	1	15400	591		1	12437 459
1246729	2	2	8905	3.4	301	1959	2	8905	3.4	301	2	11310	405		1	13145 455

TABLE 15.--DAUGHTER-AVERAGE OF GIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE							RECORD AVERAGE BY SIRE BY FRESHENING YEAR							305-DAY CONTINUEDLY AV. YEARLY HERO AVERAGE					
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	MILK LB.	FAT LB.	AV. YEARLY RECORDS NO.	MILK LB.	FAT LB.	HERO AVERAGE RECORDS NO.	MILK LB.	FAT LB.
JERSEY																			
410962	1	1	7420	6.1	455	1954	1	7420	6.1	455	1	6490	371						
439930	1	1	4530	6.3	286	1954	1	4530	6.3	286	1	7060	405						
539737	2	2	5235	5.4	282	1960	2	5235	5.4	282	2	6980	284						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL B ELDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
BROWN SWISS																
42042	8	19	9840	4.0	384	1951	1	11040	3.4	371						
						1952	1	10320	3.3	341						
						1953	6	10172	3.8	386						
						1954	4	10185	3.9	393						
						1955	5	9722	4.0	386	3	10400	4.31	3	10704	424
						1956	2	11335	3.6	401	4	9810	4.02	4	9538	378
51694	5	9	7677	3.9	295	1951	1	5850	4.2	247						
						1952	3	5153	4.3	223						
						1955	1	9960	4.0	394	1	10510	4.44	1	9821	378
						1956	1	5210	3.5	182	1	8410	3.50			
						1958	2	12660	3.5	437						
						1959	1	12360	3.7	452	1	12320	5.32	1	11630	461
54954	1	3	8547	4.0	342	1956	1	9740	4.0	388	1	9780	4.09	1	9766	392
						1957	1	8330	4.0	336	1	9460	3.68	1	9341	376
						1958	1	7570	4.0	302	1	10520	4.21	1	10671	421
55722	3	4	11067	3.6	396	1954	1	8570	3.8	329	1	10140	3.70	1	10061	376
						1955	2	10690	3.6	384	1	11200	4.11	1	9821	378
						1956	1	12720	3.5	445						
59132	1	1	5440	4.1	226	1952	1	5440	4.1	226						
61560	2	4	8685	4.3	367	1952	1	5770	4.4	252						
						1953	1	14250	4.2	596						
						1958	2	10275	4.2	425	2	8445	3.54			
61566	5	7	10092	4.0	402	1954	2	9620	4.0	380	1	10320	4.15	1	9538	378
						1956	2	11575	4.0	461	2	8755	3.67	2	9766	392
						1957	2	9190	4.0	360	2	9260	3.62	2	9341	376
						1958	1	9800	4.3	418	1	10270	4.08	1	10671	421
62228	2	3	7478	4.2	311	1954	2	8040	4.3	338						
						1956	1	7200	3.8	277						
65397	1	2	11325	3.8	423	1957	1	10270	4.0	413	1	8910	3.48	1	9341	376
						1958	1	12380	3.5	433	1	9420	3.90	1	10671	421
66934	1	1	7790	3.3	260	1956	1	7790	3.3	260						
68357	1	1	8450	3.8	319	1960	1	8450	3.8	319	1	11390	4.25			
70221	5	6	8026	4.2	332	1954	1	6460	3.8	248						
						1955	3	9943	4.2	409	3	11573	4.54	3	8767	349
						1956	2	7325	4.2	303	2	11695	4.77	1	10333	401
71763	3	7	9776	4.1	400	1956	1	8100	4.1	336	1	11130	4.31	1	10333	401
						1957	2	10800	3.9	417	2	9445	3.66			
						1958	2	10820	4.2	450	2	9470	3.90	2	7827	306
						1960	2	10220	4.2	432	2	7395	3.05	2	8955	370
71866	4	7	9281	4.2	375	1957	1	8070	3.9	315	1	11090	4.76			
						1958	4	13970	4.0	558	1	11520	4.85			
						1960	2	6465	4.3	251	1	11160	4.54			
72896	1	2	13985	3.9	540	1954	1	15150	3.9	585						
						1956	1	12820	3.9	495						
73318	1	3	11607	4.2	481	1954	1	9040	4.2	384	1	12580	5.53			
						1957	1	11670	4.2	486	1	12300	5.19			
						1959	1	14110	4.1	574	1	10940	4.64			
75282	5	8	9168	4.1	379	1954	3	9250	4.2	345	1	10770	4.29	2	8895	364
						1956	1	7740	4.1	314	1	10050	4.07	1	9766	392
						1957	2	10610	4.0	423	2	8425	3.35	1	9341	376
						1958	1	8940	4.0	358						
1959	1	8870	3.9	347	1	8040	3.57	1	8916	332						
78928	1	3	11780	3.8	450	1959	2	12830	3.9	499	1	10920	4.65			
						1960	1	9680	3.6	351	1	9720	3.99			
78960	2	3	10250	4.0	402	1957	1	10940	4.2	459	1	10690	4.37	1	10911	445
						1958	1	13660	3.9	533						
						1959	1	8200	3.8	308	1	9870	3.96			
79318	1	1	11290	3.7	417	1958	1	11290	3.7	417						
80036	1	3	4960	4.1	201	1952	1	4520	3.8	172						
						1953	1	6630	4.1	271						
						1954	1	3730	4.3	159						
85031	3	3	11457	3.9	439	1957	1	14130	3.7	528	1	11340	4.56			
						1959	2	10120	4.0	394	1	10810	4.34	1	10104	403
85201	1	1	6530	3.9	257	1960	1	6530	3.9	257	1	9870	4.04			
85637	6	11	9417	4.0	374	1955	3	10477	4.0	414	3	10403	4.45	3	9821	378
						1956	1	11540	4.1	477	1	10970	4.53	1	10333	401
						1957	3	11460	3.7	429	3	11173	4.62	3	10911	445
						1958	1	14850	3.7	554	1	12110	5.12	1	10878	439
						1959	2	5360	4.3	233	1	7730	3.09			
						1960	1	5890	4.0	235						



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
87630	2	6	8067	4.1	329	1957	1	7470	3.9	294	1	8120	334			
						1958	1	8870	4.0	352	1	9330	368			
						1959	3	8383	4.0	339	2	8050	340	2	8916	332
						1960	1	7080	4.1	291	1	6990	287	1	8088	340
87984	1	2	10855	4.2	457	1955	1	11160	4.4	487	1	9740	392	1	8230	329
						1956	1	10550	4.0	426	1	9530	374	1	9766	392
90275	1	1	10270	4.0	410	1956	1	10270	4.0	410	1	9560	375	1	9766	392
94606	1	2	12120	4.1	492	1958	2	12120	4.1	492	1	11600	500			
96076	1	1	11150	4.8	533	1957	1	11150	4.6	533	1	11670	456			
102187	1	2	7270	4.3	308	1958	1	7630	4.4	333	1	11030	437			
						1959	1	6910	4.1	283	1	10010	398	1	8775	354
103450	1	1	13330	3.7	493	1959	1	13330	3.7	493	1	11080	451			
104152	2	2	6115	4.0	243	1960	2	6115	4.0	243						
107291	1	2	9450	4.6	430	1959	2	9450	4.6	430	1	11130	469			
109762	2	2	5745	4.3	248	1960	2	5745	4.3	248	1	12510	520	2	11903	476
113925	3	7	13131	3.9	518	1958	5	13488	3.9	530	2	11960	496			
						1959	2	13350	3.7	493	2	10885	451			
116978	1	2	12360	4.3	527	1958	2	12360	4.3	527	1	14190	597	1	13549	578

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
M. SHORTHORN																
7786	1	1	8280	3.9	325	1958	1	8280	3.9	325	1	10040	382	1	9036	362
2422178	1	1	9310	4.0	376	1960	1	9310	4.0	376	1	9420	355	1	9091	347

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.	
AYRSHIRE																	
69998	1	2	9175	4.8	438	1955	1	10740	4.7	506	1	10840	408	1	9036	371	
						1956	1	7610	4.8	369	1	9270	334	1	10606	416	
80587	1	2	7810	4.9	377	1952	1	6920	5.3	368	1	10700	411				
						1955	1	8700	4.4	385	1	9960	401	1	9036	371	
85334	1	3	9023	4.1	373	1953	1	9830	4.6	449	1	8480	358	1	9102	407	
						1954	1	8810	4.3	379	1	9430	386	1	9102	383	
						1956	1	8430	3.5	292	1	10990	473	1	10115	444	
88074	2	4	10869	4.3	466	1959	3	10583	4.4	461	2	12100	476	2	11435	461	
						1960	1	10140	4.0	407	1	11330	446	1	10475	404	

TABLE 15.--DAUGHTER-AVERAGE OF SIRS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD MILK LB.	AVERAGE FAT LB.
GUERNSEY																
248427	2	3	6940	4.7	326	1947	1	6600	4.3	281						
						1948	2	6980	4.7	330						
310763	4	4	6515	4.9	321	1951	1	5970	5.0	302						
						1952	1	6590	6.0	398						
						1953	1	7910	4.4	351						
						1957	1	5590	4.1	232	1	6200	296	1	7325	341
324380	1	1	5820	4.6	270	1955	1	5820	4.6	270						
354143	4	5	7035	5.0	346	1950	3	6917	5.1	350						
						1951	1	6530	4.6	298						
						1952	1	8250	4.5	375						
377129	9	33	7458	4.5	334	1950	1	5980	5.4	322						
						1951	1	8970	4.8	434						
						1952	3	7227	4.8	351						
						1953	6	8133	4.8	392						
						1954	7	7479	4.4	326						
						1955	5	8092	4.3	345	1	9420	451	1	7870	415
						1956	5	8882	4.5	397	1	9850	493	1	8785	417
						1957	3	8753	4.4	384	1	9450	475	1	8633	408
						1958	1	9690	4.5	432	1	10060	463	1	8938	434
						1959	1	9040	4.1	373	1	10850	468	1	9799	468
398644	2	4	6448	4.5	289	1953	2	5865	4.5	262						
						1954	2	7030	4.5	316						
438178	1	1	8820	4.9	434	1959	1	8820	4.9	434	1	9330	415	1	9047	415
488892	1	1	10710	4.0	432	1958	1	10710	4.0	432						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONT'LMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.
HOLSTEIN																
701065	1	6	16448	3.0	485	1950	2	17620	3.1	532	1	19670	563			
						1953	1	18450	2.9	531	1	14390	509			
						1954	1	17100	2.9	491	1	15620	588	1	15816	510
						1955	2	13950	3.0	414	2	14470	514	2	15151	525
769336	7	16	12944	3.4	438	1954	3	15753	3.5	551	2	12955	483	3	12074	419
						1955	4	13255	3.5	464	2	14430	504	3	13098	462
						1956	2	12960	3.6	467	1	15400	570	1	15020	535
						1957	1	9690	3.5	340						
						1958	2	12400	3.5	437	1	12890	447			
						1959	3	13200	3.2	425	2	13410	457	3	9262	461
						1960	1	7250	3.0	215	1	12530	437	1	13222	457
777842	7	13	12004	3.6	430	1950	2	11210	3.8	421						
						1952	1	15930	3.0	480						
						1953	4	11300	3.6	401	1	8270	316	1	11521	400
						1954	2	11360	3.5	389	1	11970	436	1	10584	387
						1955	3	13233	3.6	479				2	11870	412
						1958	1	13570	3.2	438	1	13770	484	1	11859	405
796016	4	7	13563	3.3	449	1952	1	14280	2.9	417						
						1954	3	12420	3.4	415	2	11955	433	3	12204	403
						1955	1	17770	3.7	654	1	14910	534	1	12818	388
						1956	1	15630	3.7	585	1	15280	536	1	14900	507
						1957	1	14350	3.8	540	1	14570	543	1	14617	552
798451	1	1	12370	3.6	445	1952	1	12370	3.6	445						
811304	7	8	12750	3.6	460	1949	1	14700	3.9	580						
						1950	3	12210	3.7	441						
						1951	3	12863	3.7	473						
						1952	1	13380	3.3	447						
831321	2	4	16910	3.9	649	1955	1	13780	3.6	499	1	13610	530	1	10399	411
						1957	2	19240	4.0	751	2	13440	522	2	12339	477
						1958	1	15380	3.9	593	1	13480	681			
844122	1	1	9630	3.7	354	1959	1	9630	3.7	354	1	10000	348	1	9908	348
873324	1	2	7960	3.6	284	1959	2	7960	3.6	284	1	8710	303			
880210	1	3	12193	4.1	503	1953	1	9690	4.0	387	1	10640	408			
						1954	1	16690	4.3	718	1	9250	385	1	8840	373
						1955	1	10200	4.0	404	1	8690	363			
889698	1	1	12640	3.9	492	1956	1	12640	3.9	492						
895361	25	37	13117	3.3	435	1950	1	10290	4.2	431						
						1951	3	14113	3.3	467						
						1952	1	9700	3.0	295						
						1953	4	13908	3.3	456	1	12500	385	1	12382	458
						1954	7	14429	3.3	481	6	14320	508	6	12072	398
						1955	5	10480	3.4	352	5	10860	398	5	11061	392
						1956	3	13717	3.2	438	2	11880	434	2	13238	454
						1957	3	12897	3.6	467	3	10900	388	3	12455	444
						1958	3	13453	3.4	448	2	16305	632	1	11162	387
						1959	5	13656	3.1	417	3	12910	422	5	11284	454
						1960	2	15160	3.2	474	2	12690	426	1	13505	451
898764	1	2	13850	3.6	489	1949	1	13180	3.5	459						
						1952	1	14520	3.6	519						
900839	2	6	15825	3.3	511	1949	1	14810	3.2	467						
						1952	2	15000	3.3	489	1	11310	366			
						1954	2	14650	3.2	471	1	10760	384	1	11619	382
						1955	1	12690	3.1	396	1	12280	408	1	11619	382
900841	4	5	11851	3.3	392	1952	1	8880	3.6	324						
						1954	2	12375	3.4	417	2	8295	303	2	11249	394
						1958	1	13950	2.7	375	1	12330	378	1	12393	397
						1959	1	13600	3.3	449	1	11590	391	1	11739	405
901196	1	1	8710	3.2	279	1960	1	8710	3.2	279	1	11810	401			
911841	1	1	13810	3.7	507	1959	1	13810	3.7	507	1	11430	481			
921070	1	1	13610	4.0	540	1960	1	13610	4.0	540	1	12520	415			
923314	1	1	15440	4.3	661	1959	1	15440	4.3	661						
933248	1	1	10770	2.8	303	1960	1	10770	2.8	303	1	11020	372			
939074	1	2	12630	4.4	560	1957	1	12880	4.9	632	1	15910	653	1	15075	600
						1958	1	12380	3.9	488	1	16980	640	1	14966	584
949159	1	1	14860	3.6	536	1960	1	14860	3.6	536	1	11480	415	1	11325	403



TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR												
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO MILK LB.	AVERAGE FAT LB.		
HOLSTEIN																		
952603	1	1	9640	3.6	349	1954	1	9640	3.6	349	1	12780	460		1	13102	482	
955493	1	1	9490	2.9	278	1959	1	9490	2.9	278	1	12110	424		1	11739	405	
958336	2	2	13565	3.3	440	1957 1958	1 1	14340 12790	3.1 3.4	441 438	1	14380	495		1	12524	410	
964281	9	14	11323	3.8	425	1956 1957 1958 1959 1960	1 3 4 3 3	11360 12047 9795 12093 11957	3.6 3.9 3.6 3.7 3.6	413 468 355 449 433	1 2 2 3 3	11850 11845 10935 10800 11560	460 428 398 365 377		1 3 2 3 2	12186 11430 10077 11939 11538	423 405 352 418 389	
969669	1	1	9000	4.1	366	1959	1	9000	4.1	366	1	10450	397		1	11434	405	
969897	1	3	11050	3.2	354	1957 1958 1959	1 1 1	13750 9320 10080	3.1 3.1 3.4	426 291 345	1 1 1	14900 11540 12490	519 425 485		1 1	12393 11739	397 405	
978750	1	1	11950	3.5	413	1959	1	11950	3.5	413	1	10960	368		1	11183	400	
979056	23	37	13559	3.4	462	1951 1952 1953 1954 1955 1956 1957 1958 1959	1 4 4 5 2 1 5 8 7	19480 15035 13195 12932 9840 14600 12582 13708 12429	3.3 3.5 3.6 3.5 3.6 3.7 3.5 3.3 3.3	649 512 468 422 350 543 439 459 411		1 4 5 5 7	16090 12275 12016 10893	627 454 403 372		1 5 5 7	17124 12825 8313 11028	654 454 342 580
984801	1	4	11565	4.3	500	1951 1953 1954 1955	1 1 1 1	15750 14390 9700 6420	4.3 4.4 4.2 4.3	677 636 410 277	1 1 1 1	14420 12210 10640 9630	524 456 405 395		1	8840	373	
988958	4	4	10888	3.5	375	1959	4	10888	3.5	375	4	10528	360		4	11206	379	
989718	2	2	12895	3.7	470	1959	2	12895	3.7	470	2	10970	395		2	11337	397	
990861	1	1	12910	3.3	422	1958	1	12910	3.3	422	1	9710	328		1	11674	411	
990952	1	1	13480	3.7	493	1959	1	13480	3.7	493					1	11827	422	
1004496	1	1	10400	3.5	367	1958	1	10400	3.5	367	1	9450	347		1	10780	392	
1019538	2	3	10340	3.8	391	1957 1958	2 1	10740 9950	3.7 3.9	394 384	1 1	12550 14430	489 637		2	9309	347	
1033032	1	1	13200	3.0	394	1959	1	13200	3.0	394	1	11610	395		1	11739	405	
1038986	1	1	16340	2.9	475	1958	1	16340	2.9	475	1	12700	372		1	10769	364	
1054406	1	1	15410	3.4	529	1959	1	15410	3.4	529	1	14210	483		1	15260	522	
1056882	1	1	15260	3.0	451	1959	1	15260	3.0	451	1	11570	398		1	11870	402	
1058067	1	1	10560	3.8	398	1959	1	10560	3.8	398	1	8570	298		1	9777	343	
1061911	1	2	13815	3.9	535	1955 1957	1 1	14910 12720	4.1 3.6	616 454	1	11750	474		1	9494	377	
1064113	1	1	3820	3.4	127	1960	1	3820	3.4	127	1	11930	376		1	11478	405	
1065089	2	4	10245	3.6	367	1953 1955 1956	1 2 1	12030 9080 10790	3.7 3.6 3.4	444 327 367	1 1 1	12360 12960	438 438		1 2 1	12546 12192 11576	473 429 401	
1065743	14	24	11963	3.4	405	1953 1954 1955 1956 1957 1958 1959	1 5 5 3 4 3 3	10740 13038 13314 15223 13063 14223 12900	3.8 3.5 3.4 3.5 3.4 3.2 3.2	404 452 456 544 452 446 414		4 5 3 4 1 2	11915 11754 14720 14463 14330 11530	425 410 539 517 467 378		4 4 3 4 1 3	12587 13061 15136 14824 12633 8259	437 468 547 524 431 404
1072328	2	4	11975	3.3	392	1958 1959 1960	2 1 1	14870 10670 10100	3.4 3.1 3.5	502 329 358	1 1 1	13570 13920 13360	467 489 461		1 1 1	14421 13222	500 457	
1079168	1	1	11640	3.7	435	1959	1	11640	3.7	435	1	11380	400		1	12622	443	
1092428	1	3	5753	3.3	188	1959 1960	2 1	6090 5080	3.3 3.2	201 162	1 1	8860 8780	310 313		1	9756	341	
1117014	1	1	11560	4.2	488	1959	1	11560	4.2	488	1	13180	508		1	13004	509	
1139172	4	7	10615	3.7	385	1958 1959	1 6	10650 10398	4.0 3.6	422 365	1 4	9330 9175	328 332		1 6	8698 7280	346 382	
1140379	5	7	10941	3.4	370	1958 1959 1960	2 3 2	11255 10623 10470	3.2 3.4 3.4	361 360 357	1 3 2	9680 10240 10055	381 363 348		2 3 1	10246 10308 9756	380 373 341	
1156059	1	1	11580	4.0	461	1959	1	11580	4.0	461	1	10360	384		1	11619	413	

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY HERD RECORDS NO.	AVERAGE MILK LB.	FAT LB.
HOLSTEIN																
1167510	3	4	17062	3.7	623	1959	2	14645	3.7	538	2	14680	520	2	13407	450
						1960	2	18880	3.6	678	2	17340	585			
1179574	1	1	15300	3.8	580	1959	1	15300	3.8	580	1	13960	451	1	14421	500
1179575	2	3	13990	3.4	468	1957	1	15970	3.4	545	1	14360	484			
						1958	2	12010	3.3	391	1	12790	434			
1195742	1	1	11890	3.5	421	1958	1	11890	3.5	421	1	13580	425	1	10900	363
1216909	1	1	8540	3.6	307	1959	1	8540	3.6	307	1	10530	392	1	11183	400
1216957	1	1	15820	3.9	620	1959	1	15820	3.9	620	1	12590	434	1	14421	500
1224313	2	3	14130	3.5	504	1958	2	18060	3.7	673	1	12220	407			
						1959	1	10200	3.3	335	1	14360	489	1	15162	514
1239208	1	1	13540	4.1	558	1960	1	13540	4.1	558						

TABLE 15.--DAUGHTER-AVERAGE OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	FAT LB.
JERSEY																
357879	1	2	5060	5.9	296	1947	2	5060	5.9	296						
380510	1	2	4715	6.5	305	1947	2	4715	6.5	305						
459173	2	3	5848	5.8	336	1951	2	5865	5.9	341						
						1952	1	4940	5.9	292						
461526	1	5	5150	6.2	317	1953	1	4710	6.2	290						
						1954	2	5385	6.1	328						
						1955	1	5120	6.3	324						
						1957	1	5150	6.2	317						
465708	1	1	7540	6.4	484	1959	1	7540	6.4	484	1	8120	522		1	8175 476
474826	1	1	10200	4.7	475	1958	1	10200	4.7	475	1	8430	480		1	8219 460
539737	1	1	8750	5.4	471	1960	1	8750	5.4	471	1	8470	469		1	8578 451
571911	1	1	10520	4.7	495	1960	1	10520	4.7	495	1	8120	464		1	8655 456

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR										
SIRE NO.	DAUGHTERS NO.	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECORDS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.
BROWN SWISS																
37565	2	9	12474	4.0	489	1952	2	15250	3.9	584						
						1953	1	10400	4.2	440						
						1954	1	11530	3.9	447						
						1955	2	12225	4.0	487						
						1956	2	11130	3.9	433						
						1957	1	13860	3.7	512						
39441	1	3	11597	4.3	499	1954	1	12750	4.0	516						
						1955	1	10900	4.5	489						
						1957	1	11140	4.4	492						
42937	1	1	5650	5.0	282	1952	1	5650	5.0	282						
48097	2	2	12825	3.8	478	1950	1	16170	3.4	557						
						1951	1	9480	4.2	399						
48668	2	4	9845	3.6	355	1951	1	14570	3.6	518						
						1953	1	13750	3.7	510						
						1954	1	9960	3.8	378						
						1958	1	6930	3.5	240	1	4510	160			
52866	1	1	11230	3.7	415	1955	1	11230	3.7	415						
53915	4	9	8611	4.3	370	1951	2	6875	4.3	293						
						1952	1	8340	4.3	356						
						1953	4	8138	4.3	351						
						1954	1	6580	3.8	251						
						1957	1	9190	4.3	398						
55258	4	4	6563	4.0	263	1951	4	6563	4.0	263						
59456	1	1	9240	4.6	429	1957	1	9240	4.6	429	1	11430	479	1	11249	464
61560	9	23	9757	4.5	438	1951	3	9247	4.5	417						
						1952	7	10866	4.6	502						
						1953	4	11315	4.5	513						
						1954	2	9360	4.2	391						
						1956	1	8990	4.5	390						
						1957	4	8638	4.2	367						
						1958	2	11700	4.2	487						
61565	4	12	11565	4.1	466	1952	3	10760	4.0	418						
						1953	2	8735	4.2	363						
						1954	1	17070	4.0	678						
						1955	1	18540	4.0	735						
						1956	1	10050	3.9	397						
						1957	2	13100	4.2	550						
						1958	2	13290	4.0	525						
64837	1	4	9838	4.6	444	1953	1	10310	4.4	448						
						1954	1	9700	4.4	426						
						1955	1	9950	4.5	443						
						1956	1	9390	4.9	458						
67182	10	23	12144	4.0	489	1951	3	11897	4.3	505						
						1952	3	9603	3.7	362						
						1953	5	10462	3.9	411	1	13560	511	1	11053	451
						1954	3	14160	3.9	554	1	14840	551	1	11064	440
						1955	1	18180	3.9	715	1	14400	572	1	11064	440
						1956	2	13245	4.1	529						
						1957	2	11635	4.1	477	1	11290	489	1	11249	464
						1958	1	12940	3.7	479						
						1959	3	13813	4.3	597	1	12960	522			
70757	1	1	10310	4.2	431	1954	1	10310	4.2	431						
72896	2	5	12740	4.2	528	1954	1	14280	4.1	579	1	14480	588			
						1955	1	14010	4.1	578	1	12530	530	1	10737	439
						1956	1	14280	4.4	624	1	13470	520	1	12034	504
						1958	1	10130	4.0	403	1	11000	497			
						1959	1	12450	4.2	520				1	9527	416
73013	8	22	12990	3.8	498	1952	1	12040	3.6	437						
						1953	1	10320	3.1	322						
						1954	5	12566	3.7	466	1	15100	584	1	11064	440
						1955	2	15795	3.6	561	1	16550	648	1	11064	440
						1956	4	12320	3.8	462	1	12100	486	1	12993	508
						1957	5	14746	3.9	585	1	10960	474	1	11249	464
						1958	4	13605	3.8	521						
76059	1	1	10640	4.4	470	1957	1	10640	4.4	470						
86489	1	1	17150	4.3	739	1958	1	17150	4.3	739						
91228	1	1	10210	4.1	419	1959	1	10210	4.1	419						
94469	1	2	10870	3.8	415	1953	1	10600	3.9	413						
						1954	1	11140	3.7	416						
99308	2	2	10235	4.5	452	1957	1	8440	4.6	388	1	11500	497	1	11249	464

TABLE 15.--DAUGHTER-AVERAGE OF SIRE IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY BREED,  
BY YEAR OF FRESHENING--RECORDS FROM THIS STATE ONLY

DAUGHTER AVERAGE BY SIRE						RECORD AVERAGE BY SIRE BY FRESHENING YEAR											
SIRE NO.	DAUGHTERS NO.	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	FRESH YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY RECOROS NO.	CONTEMP. MILK LB.	AV. FAT LB.	YEARLY RECOROS NO.	HERD AVERAGE MILK LB.	AVERAGE FAT LB.	
						1959	BROWN SWISS										
103474	1	3	13307	4.7	627	1955	1	12030	4.3	515	1	11740	492		1	10671	433
						1956	1	15340	4.6	710							
						1957	1	11610	4.4	514							
							1	12970	5.1	656							
103529	1	1	8200	4.4	360	1959	1	8200	4.4	360	1	9050	394		1	8371	363
110816	1	1	5220	3.5	180	1958	1	5220	3.5	180	1	5080	180				
117840	3	3	11363	4.2	486	1959	3	11363	4.2	486	3	10957	455		3	9795	406





